```
=> fil hcaplus
FILE 'HCAPLUS' ENTERED AT 08:30:26 ON 03 JUL 2003
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FILE COVERS 1907 - 3 Jul 2003  VOL 139 ISS 1
FILE LAST UPDATED: 2 Jul 2003  (20030702/ED)

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.


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L1               STR

            6
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C~^G1~^O~^C~ G2~ C
1   2   3   4   5   7

REP G1=(0-4) C
REP G2=(14-19) C
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS   7

STEREO ATTRIBUTES: NONE
L2        56282 SEA FILE=REGISTRY SSS FUL L1
L3               STR
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=> fil hcaplus
FILE 'HCAPLUS' ENTERED AT 08:47:26 ON 03 JUL 2003
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FILE COVERS 1907 - 3 Jul 2003  VOL 139 ISS 1
FILE LAST UPDATED: 2 Jul 2003  (20030702/ED)

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.


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=> d stat que
L38          33 SEA FILE=REGISTRY ABB=ON  PLU=ON  RICINOLEIC(L) ACID(L)
                METHYL(L) ESTER
L40           6 SEA FILE=REGISTRY ABB=ON  PLU=ON  CREPENYN?
L41          34 SEA FILE=REGISTRY ABB=ON  PLU=ON  VERNOL?
L43         508 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L38 OR RICINOLEIC(W)ACID(W)MET
                HYL(W)ESTER
L45          91 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L40 OR CREPENYN?
L46         945 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L41 OR VERNOL?
L47           1 SEA FILE=REGISTRY ABB=ON  PLU=ON  "ETHYL LACTATE"/CN
L48          21 SEA FILE=REGISTRY ABB=ON  PLU=ON  SORBITAN(L)LAUR?
L49          30 SEA FILE=REGISTRY ABB=ON  PLU=ON  NONYLPHENYL(L)POLYOXY?
L50             SEL  PLU=ON  L47 1- CHEM :       18 TERMS
L51        3242 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L50
L52        3242 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L51 OR ETHYL(W)LACTATE
L53        8025 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L48 OR SORBITAN(W)?LAUR?
L54       14288 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L49 OR NONYLPHENYL(L)POLOXY?
L55          13 SEA FILE=HCAPLUS ABB=ON  PLU=ON  (L43 OR L45 OR L46) AND (L52
                OR L53 OR L54)


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=>

=> d ibib abs hitstr l55 1-13

L55  ANSWER 1 OF 13  HCAPLUS  COPYRIGHT 2003 ACS
ACCESSION NUMBER:        2001:554436  HCAPLUS
DOCUMENT NUMBER:         136:68746
TITLE:                   Bioconversion of ricinoleic acid into
                         .gamma.-decalactone: Optimisation of the production
                         using the yeasts Sporidiobolus salmonicolor and
                         Sporidiobolus ruinenii
AUTHOR(S):               Dufosse, L.; Feron, G.; Perrin, C.; Djian, A.;
                         Spinnler, H.-E.
CORPORATE SOURCE:        Laboratoire de Microbiologie Appliquee, Universite de
```

Bretagne Occidentale, Quimper, 29000, Fr.

SOURCE: Frontiers of Flavour Science, [Proceedings of the Weurman Flavour Research Symposium], 9th, Freising, Germany, June 22-25, 1999 (2000), Meeting Date 1999, 389-393. Editor(s): Schieberle, Peter; Engel, Karl-Heinz. Deutsche Forschungsanstalt fuer Lebensmittelchemie: Garching, Germany. CODEN: 69BOX5

DOCUMENT TYPE: Conference

LANGUAGE: English

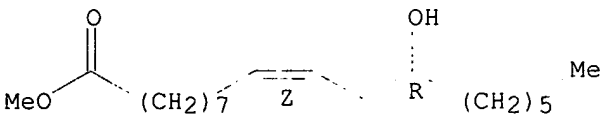
AB The prodn. of .gamma.-decalactone by microorganisms has been studied for many years but attention was esp. paid to metabolic studies in order to elucidate the catabolic pathway of the substrate (i.e. oxygenated fatty acids) leading to the synthesis of the lactone (1, 2). However few studies (3, 4) have been dedicated to the improvement of the fermn. process. Interesting results were obtained in our lab. on Sporidiobolus salmonicolor when testing (i) the nature of the substrate (free fatty acid or Me ester), (ii) the growth state at which substrate is added to the yeast cells, (iii) the effect of substrate concn., (iv) the presence of permeating agents or surfactants, (v) the trapping effect of substrate when added in excess. The best compromise found for these 5 issues increased the aroma concn. in the fermn. medium up to 1.40 g.L-1 with a maximal productivity of 22 mg/L.h-1. Nevertheless, the prodn. of the flavor compd. by this yeast is still limited by the toxic effect of .gamma.-decalactone (5). Therefore, another yeast (Sporidiobolus ruinenii) being able to protect itself from lactone toxicity was investigated (6). Using this yeast, we obtained a high prodn. particularly when a second substrate (glucose) was co-oxidized during the bioconversion of Me ricinoleate. In conclusion, Sporidiobolus salmonicolor may be recommended for continuous prodn. of .gamma.-decalactone at low substrate level, and Sporidiobolus ruinenii for long-term batch or fed-batch using high concn. of substrate.

IT **141-24-2**, Methyl ricinoleate
RL: BCP (Biochemical process); BIOL (Biological study); PROC (Process)
(optimization of .gamma.-decalactone prodn. from ricinoleic acid using the yeasts Sporidiobolus salmonicolor and Sporidiobolus ruinenii)

RN 141-24-2 HCAPLUS

CN 9-Octadecenoic acid, 12-hydroxy-, methyl ester, (9Z,12R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.



IT **9005-64-5**, Tween 20
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(optimization of .gamma.-decalactone prodn. from ricinoleic acid using the yeasts Sporidiobolus salmonicolor and Sporidiobolus ruinenii)

RN 9005-64-5 HCAPLUS

CN Sorbitan, monododecanoate, poly(oxy-1,2-ethanediyl) derivs. (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L55 ANSWER 2 OF 13 HCAPLUS COPYRIGHT 2003 ACS

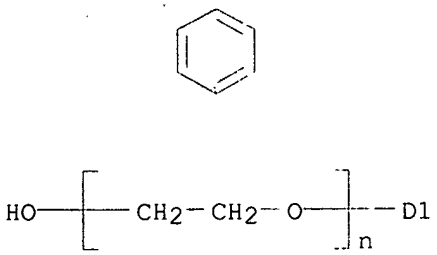
ACCESSION NUMBER: 1993:605608 HCAPLUS
DOCUMENT NUMBER: 119:205608
TITLE: Poly(vinyl acetal) resin coatings with releasability
INVENTOR(S): Kotake, Koju; Kobayashi, Satoshi; Tagashira, Yutaka; Nishijima, Akio
PATENT ASSIGNEE(S): Denki Kagaku Kogyo Kk, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05112742	A2	19930507	JP 1991-299522	19911021

PRIORITY APPLN. INFO.: JP 1991-299522 19911021

AB The title coatings with releasability against various substrates contain poly(vinyl acetals) comprising 20/80-80/20 mixts. of acetoacetal part and butyl acetal part 100, plasticizers 5-100, and mold-releasing agents 0.1-5 parts in org. solvents. Thus, 100 parts poly(vinyl acetal) (av. d.p. 890; contg. vinyl alc. part 16.5, vinyl acetate part 1.5, and vinyl acetal part 82.0%, acetal/butyral = 50/50) was mixed with 330 parts Solmix (13% MeOH-contg. EtOH), 50 parts castor oil, and 2.2 parts lecithin compn. and treated at 40.degree. for 2 h to give a coating compn. showing storage stability, coatability, and releasability against SPCC steel plates and cotton canvas.

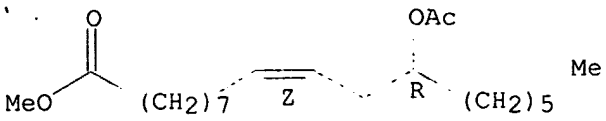
IT **9016-45-9**, Emulgen 910
RL: USES (Uses)
(mold-releasing agents, for poly(vinyl acetal butyral) coatings, with water resistance)
RN 9016-45-9 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy- (9CI) (CA INDEX NAME)



D1— $(CH_2)_8$ —Me

IT **140-03-4**, Methylacetyl ricinoleate
RL: MOA (Modifier or additive use); USES (Uses)
(plasticizers, for poly(vinyl acetal butyrals), for coatings, with releasability)
RN 140-03-4 HCAPLUS
CN 9-Octadecenoic acid, 12-(acetyloxy)-, methyl ester, (9Z,12R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.

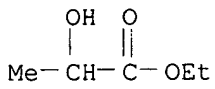


L55 ANSWER 3 OF 13 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1992:595057 HCAPLUS
DOCUMENT NUMBER: 117:195057
TITLE: Evaluation of possible methanol fuel additives for reducing engine wear and/or corrosion
AUTHOR(S): Estefan, R. M.; Brown, J. G.
CORPORATE SOURCE: Southwest Res. Inst., USA
SOURCE: Society of Automotive Engineers, [Special Publication] SP (1990), SP-840(Methanol Fuel Formulations In-Use Exper.), 17-39
CODEN: SAESA2; ISSN: 0099-5908
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The use of fuel additives is one possible approach to reduce wear and corrosion in MeOH-fueled automobile engines. Many (106) compds. added to M100 fuel in modest concns. (1%) were tested in a Ball on Cylinder Machine (BOCM) for their ability to improve lubricity. The most promising candidates were then tested in an engine using a modified ASTM Sequence V-D wear screening test. Additive performance was measured by comparing the buildup of wear metals in the oil to that obtained from an engine fueled with neat M100. The BOCM method of evaluating the additive candidates proved inadequate in predicting abrasive engine wear under the test conditions utilized for this research program.

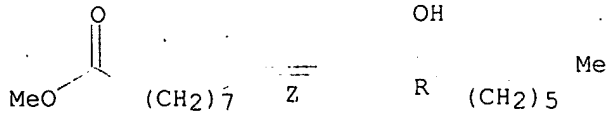
IT **97-64-3, Ethyl lactate 141-24-2,**
Methyl ricinoleate
RL: USES (Uses)
(antiwear-corrosion inhibitor, for methanol, evaluation of, for diesel engine operation)

RN 97-64-3 HCAPLUS
CN Propanoic acid, 2-hydroxy-, ethyl ester (9CI) (CA INDEX NAME)



RN 141-24-2 HCAPLUS
CN 9-Octadecenoic acid, 12-hydroxy-, methyl ester, (9Z,12R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.



L55 ANSWER 4 OF 13 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1992:497095 HCAPLUS
DOCUMENT NUMBER: 117:97095
TITLE: Hair preparations containing adenosine phosphates and

fatty acid derivatives
INVENTOR(S): Kurusu, Keiji; Hosokawa, Minoru; Takada, Koji
PATENT ASSIGNEE(S): Lion K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 47 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04112817	A2	19920414	JP 1990-407048	19901226

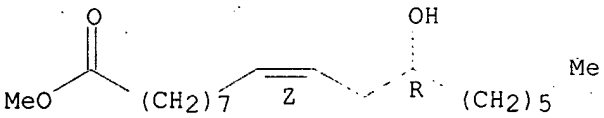
PRIORITY APPLN. INFO.: JP 1989-337738 19891226

AB A hair prepn. contains (1) adenosine 3',5'-cyclic phosphate (or its deriv.), (2) a surfactant ethylene oxide adduct, and (3) .gtoreq.1 compd. selected from fatty acids, fatty acid esters, pyrrolidone compds., urea compds., amine oxides, fatty acid amides, and alkylamines. The improvement of transdermal absorption of (1) compd. prevented gray hair formation. Thus, a hair tonic was prepd. contg. 95% by vol. EtOH 60, POE cetyl ether Na phosphate 1, Et linolate 2, Na 8-methoxy cAMP 0.05, l-menthol 0.1, biotin 0.001, benzyl nicotinate 0.05, fragrance trace, and water to 100 % by wt.

IT **141-24-2**, Methyl ricinoleate **9016-45-9**
RL: BIOL (Biological study)
(hair prepns. contg. cAMP deriv. and)

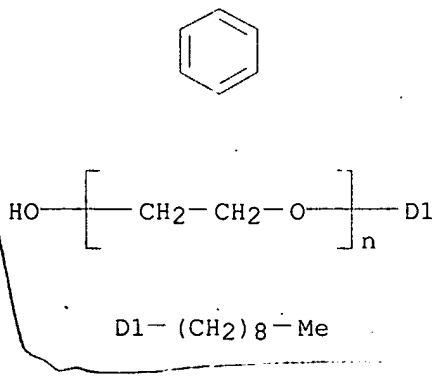
RN 141-24-2 HCAPLUS
CN 9-Octadecenoic acid, 12-hydroxy-, methyl ester, (9Z,12R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.



Ricinoleic acid methyl acid ester

RN 9016-45-9 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy- (9CI) (CA INDEX NAME)



Surfactant

L55 ANSWER 5 OF 13 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1988:501958 HCAPLUS
DOCUMENT NUMBER: 109:101958
TITLE: Reversible heat-sensitive recording material

INVENTOR(S): Hotta, Yoshihiko; Kubo, Keishi
PATENT ASSIGNEE(S): Ricoh Co., Ltd., Japan
SOURCE: Ger. Offen., 21 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3726015	A1	19880211	DE 1987-3726015	19870805
DE 3726015	C2	19900510		
JP 63039378	A2	19880219	JP 1986-182667	19860805
JP 07115545	B4	19951213		
JP 63104879	A2	19880510	JP 1986-251234	19861022
JP 2534237	B2	19960911		
JP 63107584	A2	19880512	JP 1986-253095	19861023
JP 63130380	A2	19880602	JP 1986-278102	19861121
JP 2557357	B2	19961127		
JP 63178079	A2	19880722	JP 1987-9077	19870120
JP 07098425	B4	19951025		
JP 63179789	A2	19880723	JP 1987-12971	19870121
JP 2534248	B2	19960911		
DE 3744857	C2	19910214	DE 1987-3744857	19870805
US 4977030	A	19901211	US 1989-361801	19890530
US 5116803	A	19920526	US 1990-595244	19901010
US 5308823	A	19940503	US 1992-850553	19920313

PRIORITY APPLN. INFO.:

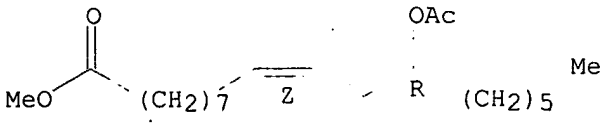
JP 1986-182667	19860805
JP 1986-251234	19861022
JP 1986-253095	19861023
JP 1986-278102	19861121
JP 1987-9077	19870120
JP 1987-12971	19870121
US 1987-80432	19870730
US 1989-361801	19890530
US 1990-595244	19901010

AB Three types of reversible heat-sensitive recording materials are described. The 1st, whose transparency can be altered relative to the temp., consists of a resin matrix contg. dispersed therein a low mol. wt. org. compd., such as a higher fatty acid with .gtoreq.16 C atoms, and a further defined additive in a wt. ratio of 95:5 to 20:80. The 2nd material also contains a further defined additive, and the 3rd material contains a solvent with a b.p. >200.degree.. Thus, a polyester film was coated with a soln. contg. behenic acid, stearyl alc., VYHH, and THF to give a white-opaque, reversible thermal recording material.

IT **140-03-4 1338-39-2 9016-45-9**
RL: TEM (Technical or engineered material use); USES (Uses)
(thermal recording materials contg., reversible)

RN 140-03-4 HCAPLUS
CN 9-Octadecenoic acid, 12-(acetyloxy)-, methyl ester, (9Z,12R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.



RN 1338-39-2 HCAPLUS

CN Sorbitan, monododecanoate (9CI) (CA INDEX NAME)

CM 1

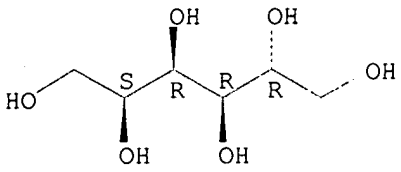
CRN 143-07-7
CMF C12 H24 O2

$HO_2C-(CH_2)_{10}-Me$

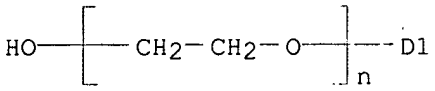
CM 2

CRN 50-70-4
CMF C6 H14 O6

Absolute stereochemistry.



RN 9016-45-9 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy- (9CI) (CA INDEX NAME)



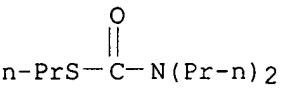
$D1-(CH_2)_8-Me$

L55 ANSWER 6 OF 13 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1985:500253 HCAPLUS
DOCUMENT NUMBER: 103:100253
TITLE: Effects of herbicides and herbicide analogs on [14C]leucine incorporation by suspension-cultured Solanum nigrum cells
AUTHOR(S): Egli, M. A.; Low, D.; White, K. R.; Howard, J. A.
CORPORATE SOURCE: Biol. Sci., Stauffer Chem. Co., Richmond, CA, 94804, USA
SOURCE: Pesticide Biochemistry and Physiology (1985), 24(1), 112-18
CODEN: PCBPBS; ISSN: 0048-3575
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Assays of [14C]leucine incorporation were used to measure effects of herbicides on suspension-cultured heterotrophic S. nigrum cells. Most

herbicidal vs. nonherbicidal chem. in a set of 47 compds. could be distinguished from each other based on their extent of inhibition of leucine incorporation by S. nigrum cells. Herbicides which failed to inhibit leucine incorporation were photosynthetic inhibitors. Both phytotoxic and nonphytotoxic thiocarbamate analogs (as detd. by whole-plant studies) tended to inhibit leucine incorporation. Thus, leucine incorporation screen could detect a majority of compds. tested which are herbicidal, and it may also be useful to detect compds. which have cellular toxicity which is not obsd. in the whole plant.

IT **1929-77-7 9005-64-5**
RL: BIOL (Biological study)
(leucine metab. response to, in Solanum nigrum suspension cultures, herbicidal activity in relation to)

RN 1929-77-7 HCAPLUS
CN Carbamothioic acid, dipropyl-, S-propyl ester (9CI) (CA INDEX NAME)



RN 9005-64-5 HCAPLUS
CN Sorbitan, monododecanoate, poly(oxy-1,2-ethanediyl) derivs. (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L55 ANSWER 7 OF 13 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1975:73910 HCAPLUS
DOCUMENT NUMBER: 82:73910
TITLE: N-Cyclohexyl-N-(2-acetoxyethyl)oleamide
INVENTOR(S): Mod, Robert R.; Magne, Frank C.; Skau, Evald L.
SOURCE: U.S., 8 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 8
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3803186	A	19740409	US 1972-288812	19720913
US 3403126	A	19680924	US 1966-529652	19660224
US 3644478	A	19720222	US 1969-876556	19691113
US 3787455	A	19740122	US 1971-141361	19710507

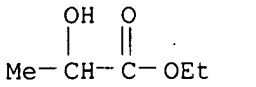
PRIORITY APPLN. INFO.:
US 1966-529652 19660224
US 1967-683060 19671012
US 1969-876556 19691113
US 1971-141361 19710507

GI For diagram(s), see printed CA Issue.

AB Sixty N-acyl derivs. of secondary amines were prepd. and evaluated as plasticizers for vinyl acetate-vinyl chloride copolymer (I) [9003-22-9] and poly(vinyl chloride) [9002-86-2]. Me oleate [112-62-9], added to 2-(cyclohexylamino)ethanol [2842-38-8]-NaMeOH, and treated with acetyl chloride [75-36-5]-pyridine, gave N-(2-acetoxyethyl)-N-cyclohexyloleamide (II) [13653-46-8]. II in Vinylite VYDR (5.95 I) formulations gave moldings of higher tensile strength, modulus, and elongation, similar brittle point, and lower volatility loss, than bis(2-ethylhexyl) phthalate-plasticized I.

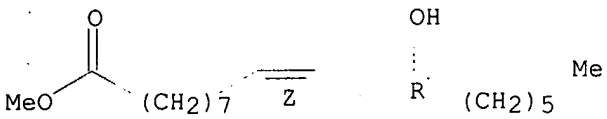
IT **97-64-3 141-24-2**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with dibutylamine)

RN 97-64-3 HCAPLUS
CN Propanoic acid, 2-hydroxy-, ethyl ester (9CI) (CA INDEX NAME)



RN 141-24-2 HCAPLUS
CN 9-Octadecenoic acid, 12-hydroxy-, methyl ester, (9Z,12R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.



L55 ANSWER 8 OF 13 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1974:553664 HCAPLUS
DOCUMENT NUMBER: 81:153664
TITLE: N,N-Bis[2-(3-carboalkoxypropionyloxy)ethyl]-oleamides
INVENTOR(S): Mod, Robert R.; Magne, Frank C.; Skau, Evald L.
PATENT ASSIGNEE(S): United States Dept. of Agriculture
SOURCE: U.S., 8 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 8
PATENT INFORMATION:

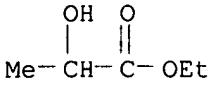
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3808241	A	19740430	US 1972-288813	19720913
US 3403126	A	19680924	US 1966-529652	19660224
US 3644478	A	19720222	US 1969-876556	19691113
US 3787455	A	19740122	US 1971-141361	19710507

PRIORITY APPLN. INFO.:
US 1966-529652 19660224
US 1967-683060 19671012
US 1969-876556 19691113
US 1971-141361 19710507

AB N,N-bis[2-(3-carbobutoxypropionyloxy)ethyl]oleamide (I) [13653-49-1] andN,N-bis[2-(3-carbohexanoxypropionyloxy)ethyl]oleamide (II) [13653-50-4] were prepd. and used as plasticizers for vinyl chloride resins. In an example, PVC [9002-86-2] plasticized with II had tensile strength 3040 psi, 100% modulus 2010 psi, elongation 310%, brittle point -35.deg., and volatility loss 1.19%; with conventional DOP plasticizer the values were 3050 psi, 1610 psi, 330%, -33.deg., and 1.50%, resp. I and II were prepd. by treatment of N,N-bis(2-hydroxyethyl)oleamide [93-83-4] with 3-chloroformylbutylpropionate [36335-29-2] or 3-chloroformylhexylpropionate [40221-60-1], resp.

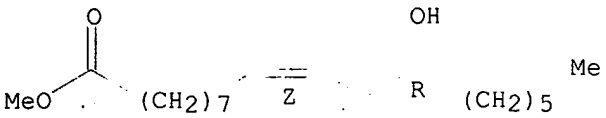
IT **97-64-3 141-24-2**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with dibutylamine)

RN 97-64-3 HCAPLUS
CN Propanoic acid, 2-hydroxy-, ethyl ester (9CI) (CA INDEX NAME)



RN 141-24-2 HCAPLUS
CN 9-Octadecenoic acid, 12-hydroxy-, methyl ester, (9Z,12R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.



L55 ANSWER 9 OF 13 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1974:553662 HCAPLUS
DOCUMENT NUMBER: 81:153662
TITLE: N,N-Di-butyl-2-(oleoyloxy)propionamide
INVENTOR(S): Mod, Robert R.; Magne, Frank C.; Skau, Evald L.
PATENT ASSIGNEE(S): United States Dept. of Agriculture
SOURCE: U.S., 8 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 8
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3808242	A	19740430	US 1972-288814	19720913
US 3403126	A	19680924	US 1966-529652	19660224
US 3644478	A	19720222	US 1969-876556	19691113
US 3787455	A	19740122	US 1971-141361	19710507

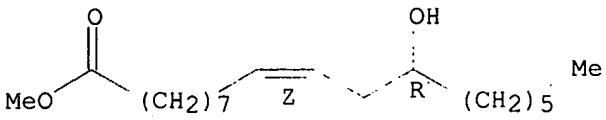
PRIORITY APPLN. INFO.:
US 1966-529652 19660224
US 1967-683060 19671012
US 1969-876556 19691113
US 1971-141361 19710507

AB N,N-dialkyloleamides and N,N-dialkyl-2-(oleoyloxy)propionamides were manufd., and used as plasticizers for vinyl acetate-vinyl chloride copolymer (I) [9003-22-9]. Thus, a mixt. contg. 63.5% I, 35.0% N,N-diisopropyloleamide [5831-78-7] from disopropylamine and oleoyl chloride, 0.5% stearic acid, and 1.0% basic lead carbonate was milled, molded, and gave plasticized I with 2,960 psi tensile strength, 1,660 psi 100% modulus, 330% elongation, -53.deg. brittle point, 2.49% volatility loss, and O antistatic rating.

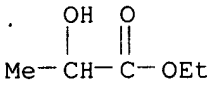
IT **141-24-2**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with dibutylamine)

RN 141-24-2 HCAPLUS
CN 9-Octadecenoic acid, 12-hydroxy-, methyl ester, (9Z,12R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.



IT **97-64-3**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with diethanolamine)
RN 97-64-3 HCAPLUS
CN Propanoic acid, 2-hydroxy-, ethyl ester (9CI) (CA INDEX NAME)



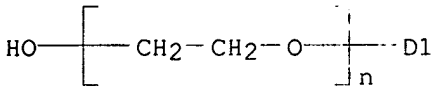
L55 ANSWER 10 OF 13 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1974:405239 HCAPLUS
DOCUMENT NUMBER: 81:5239
TITLE: Emulsifiable lubricant for metal treatment
PATENT ASSIGNEE(S): Esso Research and Engineering Co.
SOURCE: Fr. Demande, 20 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2168989	A1	19730907	FR 1972-2998	19720128
FR 2168989	B1	19751024		

PRIORITY APPLN. INFO.: FR 1972-2998 19720128

AB A lubricant consists of an aliph. monoalc. or a mixt. of C8-20 alcs. 3-90, a lubricating oil 9-85, an emulsifying agent 0.1-25, an additive for unctuosity 0.65%, with the stipulation that the total quantity of alc. plus unctuosity additive is 10-90% of the compn. wt. This compn. is emulsified with 4 vols. of water to make a lubricant for the rolling of Al sheet. Use of the emulsified lubricant in place of the std. lubricant reduces roller pressure and motor amperage and substantially increases the rolling speed.

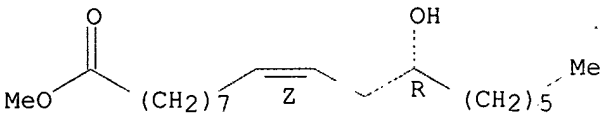
IT **9016-45-9**
RL: USES (Uses)
(emulsifying agent, for lubricants)
RN 9016-45-9 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy- (9CI) (CA INDEX NAME)



D1— $(CH_2)_8$ —Me

IT **141-24-2**
RL: USES (Uses)
(lubricants contg., for rolling aluminum sheet)
RN 141-24-2 HCAPLUS
CN 9-Octadecenoic acid, 12-hydroxy-, methyl ester, (9Z,12R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.



L55 ANSWER 11 OF 13 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1974:50219 HCAPLUS
DOCUMENT NUMBER: 80:50219
TITLE: Lubricant for metal working
INVENTOR(S): Feng, I-Ming
PATENT ASSIGNEE(S): Esso Research and Engineering Co.
SOURCE: Ger. Offen., 28 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2204599	A1	19730809	DE 1972-2204599	19720201

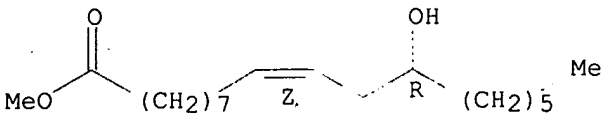
PRIORITY APPLN. INFO.: DE 1972-2204599 19720201

AB Improved emulsifiable lubricants for metal working were prepd. from one or several C8-20 aliph. monoalcs., a lube oil base, and an emulsifier consisting of combinations of fatty acids, fatty acid esters and phosphoric acid esters. Satisfactory lubes were prepd. wherein the alc. and additives covered a range of 10-90% of the total wt. of the lubricant. Thus, a lubricant consists of tricresyl phosphate 12, sorbitan monooleate 4, dodecanol 19.2, tetradecanol 13, hexadecanol 7, octadecanol 1.3, oleic acid 3.5 and lube oil base (Saybolt Universal Sec 43 at 37.8.degree.) 40 wt.%.

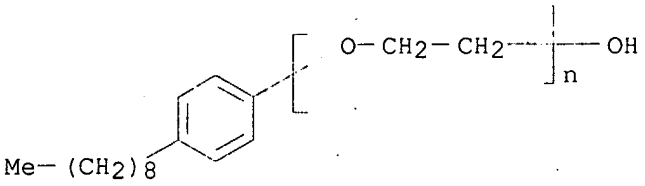
IT **141-24-2 26027-38-3**
RL: USES (Uses)
(lubricants contg., for metal working)
RN 141-24-2 HCAPLUS
CN 9-Octadecenoic acid, 12-hydroxy-, methyl ester, (9Z,12R)- (9CI) (CA INDEX

NAME)

Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.



RN 26027-38-3 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy- (9CI) (CA INDEX NAME)



L55 ANSWER 12 OF 13 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1973:406083 HCAPLUS
DOCUMENT NUMBER: 79:6083
TITLE: Ethyl 2,2-dimethyl-3-(dibutylamino)carbonylcyclobutane acetate as a plasticier for vinyl chloride resins
INVENTOR(S): Mod, Robert R.; Magne, Frank C.; Skau, Evald L.
PATENT ASSIGNEE(S): United States Dept. of Agriculture
SOURCE: U.S., 8 pp. Division of U.S. 3,403,126 (CA 69;107371y).
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 8
PATENT INFORMATION:

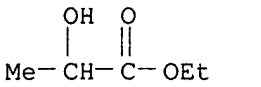
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3644478	A	19720222	US 1969-876556	19691113
US 3787455	A	19740122	US 1971-141361	19710507
US 3787457	A	19740122	US 1972-288802	19720913
US 3787456	A	19740122	US 1972-288840	19720913
US 3803186	A	19740409	US 1972-288812	19720913
US 3808242	A	19740430	US 1972-288814	19720913
US 3808241	A	19740430	US 1972-288813	19720913

PRIORITY APPLN. INFO.: US 1966-529652 19660224
US 1967-683060 19671012
US 1969-876556 19691113
US 1971-141361 19710507

AB Et 2,2-dimethyl-3-(dibutylamino)carbonylcyclobutaneacetate (I) [6535-05-3], prepd. by treating Bu2NH with Et 2,2-dimethyl-3-chlorocarbonylcyclobutaneacetate in the presence of C5H5N, is a compatible plasticizer for Vinylite VYDR [9003-22-9] and Geon 101 [9002-86-2]. The plasticizing properties of I are compared with those of 59 other plasticizers.

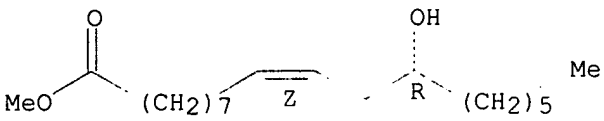
IT **97-64-3 141-24-2**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with dibutylamine)

RN 97-64-3 HCAPLUS
CN Propanoic acid, 2-hydroxy-, ethyl ester (9CI) (CA INDEX NAME)



RN 141-24-2 HCAPLUS
CN 9-Octadecenoic acid, 12-hydroxy-, methyl ester, (9Z,12R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.



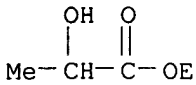
L55 ANSWER 13 OF 13 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1970:45157 HCAPLUS
DOCUMENT NUMBER: 72:45157
TITLE: Water-soluble salts of aminotriazine carboxylic acids
PATENT ASSIGNEE(S): Reichhold Chemie A.-G.
SOURCE: Fr., 9 pp.
CODEN: FRXXAK
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 1544219		19681031		
PRIORITY APPLN. INFO.:			DE	19661006
			DE	19670425

AB Hexakis(methoxymethyl)melamine (I) and other condensation products of melamine and HCHO, previously etherified are transetherified with hydroxycarboylic acid esters and then hydrolyzed to give water-sol. anionic resins, useful for coating by electrophoresis. Thus, a mixt. of 195 g I, 100 g Bu glycolate (II), and 0.2 cc of a 15% iso-BuOH soln. of H3PO4 is heated at 150.degree. until no more MeOH distills, then excess II is distd. in vacuo and the residue refluxed with 400 cc aq. 10% NaOH to give a clear soln. A similar resin can be prepd. from 195 g I and 170 g Me ricinoleate; Me or **Et lactate** can also be used instead of II. Strongly etherified hexakis(hydroxymethyl)melamine or tetrakis(methoxymethyl)-benzoguanamine can be used instead of I. A complete study of the effects of the reaction conditions is also presented.

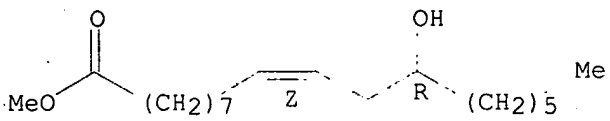
IT **97-64-3 141-24-2**
RL: USES (Uses)
(hexakis(methoxymethyl)melamine transetherified with, coatings of, electrophoretic)

RN 97-64-3 HCAPLUS
CN Propanoic acid, 2-hydroxy-, ethyl ester (9CI) (CA INDEX NAME)



RN 141-24-2 HCAPLUS
CN 9-Octadecenoic acid, 12-hydroxy-, methyl ester, (9Z,12R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.



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ENTER DISPLAY CODE (TI) OR ?:end

=> select hit rn l55 1-13
E1 THROUGH E8 ASSIGNED

=> fil reg
FILE 'REGISTRY' ENTERED AT 08:49:11 ON 03 JUL 2003
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 1 JUL 2003 HIGHEST RN 540721-20-8
DICTIONARY FILE UPDATES: 1 JUL 2003 HIGHEST RN 540721-20-8

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> d his l56-

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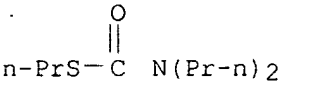
SELECT HIT RN L55 1-13

FILE 'REGISTRY' ENTERED AT 08:49:11 ON 03 JUL 2003
L56 8 S E1-E8
L57 3 S L56 AND (L38 OR L40 OR L41)

=> d ide can l57 1-3

L57 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2003 ACS
RN **1929-77-7** REGISTRY
CN Carbamothioic acid, dipropyl-, S-propyl ester (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Carbamic acid, dipropylthio-, S-propyl ester (6CI, 8CI)
OTHER NAMES:
CN Dipropylthiocarbamic acid S-propyl ester
CN Perbulate
CN PPTC
CN Propyl dipropylthiolcarbamate
CN R-1607
CN S-n-Propyl N,N-dipropylthiocarbamate
CN S-Propyl dipropylthiocarbamate
CN Vanalate
CN Vernam
CN **Vernolate**
FS 3D CONCORD
MF C10 H21 N O S
CI COM
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHEM, HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PDLCOM*, PROMT, RTECS*, SPECINFO, TOXCENTER, ULIDAT, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

513 REFERENCES IN FILE CA (1957 TO DATE)
12 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
514 REFERENCES IN FILE CAPLUS (1957 TO DATE)
27 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:343299

REFERENCE 2: 138:267186

REFERENCE 3: 138:105781

REFERENCE 4: 138:68344

REFERENCE 5: 138:34679

REFERENCE 6: 137:274424

REFERENCE 7: 137:243339

REFERENCE 8: 137:231586

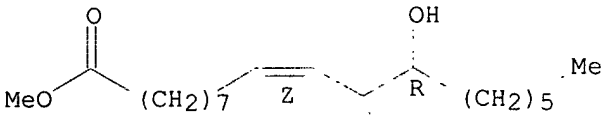
REFERENCE 9: 137:181089

REFERENCE 10: 137:1852

L57 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2003 ACS
RN **141-24-2** REGISTRY

CN 9-Octadecenoic acid, 12-hydroxy-, methyl ester, (9Z,12R)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 9-Octadecenoic acid, 12-hydroxy-, methyl ester, [R-(Z)]-
CN **Ricinoleic acid, methyl ester (6CI, 8CI)**
OTHER NAMES:
CN **cis-Ricinoleic acid methyl ester**
CN Flexricin P 1
CN Methyl 12-D-hydroxy-9-cis-octadecenoate
CN Methyl ricinate
CN Methyl ricinoleate
CN Ricinic acid methyl ester
FS STEREOSEARCH
DR 7705-99-9
MF C19 H36 O3
CI COM
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMLIST, CSCHEM, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, PROMT, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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24 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
385 REFERENCES IN FILE CAPLUS (1957 TO DATE)
46 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:256855

REFERENCE 2: 138:239188

REFERENCE 3: 138:171914

REFERENCE 4: 138:152314

REFERENCE 5: 138:105948

REFERENCE 6: 138:89592

REFERENCE 7: 138:71953

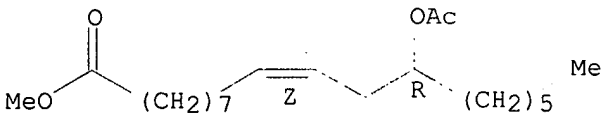
REFERENCE 8: 138:14532

REFERENCE 9: 137:371646

REFERENCE 10: 137:338626

L57 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2003 ACS
RN **140-03-4** REGISTRY
CN 9-Octadecenoic acid, 12-(acetyloxy)-, methyl ester, (9Z,12R)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 9-Octadecenoic acid, 12-(acetyloxy)-, methyl ester, [R-(Z)]-
CN **Ricinoleic acid, methyl ester, acetate (6CI, 7CI, 8CI)**
OTHER NAMES:
CN Flexricin P 4
CN MAR-N
CN Methyl acetyl ricinoleate
CN Methyl ricinoleate acetate
FS STEREOSEARCH
MF C21 H38 O4
LC STN Files: AQUIRE, BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CHEMCATS, CHEMLIST, CSCHEM, IFICDB, IFIPAT, IFIUDB, RTECS*, SPECINFO, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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85 REFERENCES IN FILE CAPLUS (1957 TO DATE)
14 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:84853

REFERENCE 2: 137:338626

REFERENCE 3: 136:385975

REFERENCE 4: 135:344294

REFERENCE 5: 132:195574

REFERENCE 6: 131:230789

REFERENCE 7: 131:170182

REFERENCE 8: 130:253093

REFERENCE 9: 130:227503

REFERENCE 10: 130:223943

=> d his 156-

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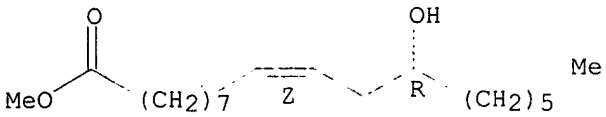
L56            8 S E1-E8
L57            3 S L56 AND (L38 OR L40 OR L41)
L58            2 S L56 AND L2

=> d ide can 158 1-2

L58 ANSWER 1 OF 2  REGISTRY  COPYRIGHT 2003 ACS
RN   141-24-2  REGISTRY
CN   9-Octadecenoic acid, 12-hydroxy-, methyl ester, (9Z,12R)- (9CI)  (CA INDEX
     NAME)
OTHER CA INDEX NAMES:
CN   9-Octadecenoic acid, 12-hydroxy-, methyl ester, [R-(Z)]-
CN   Ricinoleic acid, methyl ester (6CI, 8CI)
OTHER NAMES:
CN   cis-Ricinoleic acid methyl ester
CN   Flexricin P 1
CN   Methyl 12-D-hydroxy-9-cis-octadecenoate
CN   Methyl ricinate
CN   Methyl ricinoleate
CN   Ricinic acid methyl ester
FS   STEREOSEARCH
DR   7705-99-9
MF   C19 H36 O3
CI   COM
LC   STN Files:   AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS,
       CA, CAOLD, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMLIST, CSCHEM, GMELIN*,
       HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, PROMT, TOXCENTER,
       USPAT2, USPATFULL
         (*File contains numerically searchable property data)
     Other Sources:   DSL**, EINECS**, TSCA**
         (**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.  Rotation (+).
Double bond geometry as shown.
```

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

             384 REFERENCES IN FILE CA (1957 TO DATE)
              24 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
             385 REFERENCES IN FILE CAPLUS (1957 TO DATE)
              46 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE   1:  138:256855

REFERENCE   2:  138:239188

REFERENCE   3:  138:171914

REFERENCE   4:  138:152314

REFERENCE   5:  138:105948

REFERENCE   6:  138:89592
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REFERENCE 7: 138:71953

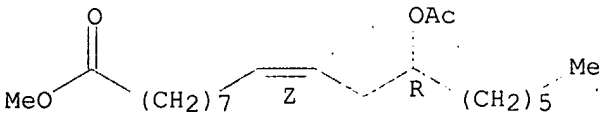
REFERENCE 8: 138:14532

REFERENCE 9: 137:371646

REFERENCE 10: 137:338626

L58 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2003 ACS
RN **140-03-4** REGISTRY
CN 9-Octadecenoic acid, 12-(acetyloxy)-, methyl ester, (9Z,12R)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 9-Octadecenoic acid, 12-(acetyloxy)-, methyl ester, [R-(Z)]-
CN Ricinoleic acid, methyl ester, acetate (6CI, 7CI, 8CI)
OTHER NAMES:
CN Flexricin P 4
CN MAR-N
CN Methyl acetyl ricinoleate
CN Methyl ricinoleate acetate
FS STEREOSEARCH
MF C21 H38 O4
LC STN Files: AQUIRE, BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CHEMCATS, CHEMLIST, CSCHEM, IFICDB, IFIPAT, IFIUDB, RTECS*, SPECINFO, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

85 REFERENCES IN FILE CA (1957 TO DATE)
85 REFERENCES IN FILE CAPLUS (1957 TO DATE)
14 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:84853

REFERENCE 2: 137:338626

REFERENCE 3: 136:385975

REFERENCE 4: 135:344294

REFERENCE 5: 132:195574

REFERENCE 6: 131:230789

REFERENCE 7: 131:170182

REFERENCE 8: 130:253093

REFERENCE 9: 130:227503

REFERENCE 10: 130:223943

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=> d stat que l59 nos
L1              STR
L2          56282 SEA FILE=REGISTRY SSS FUL L1
L3              STR
L4          23930 SEA FILE=REGISTRY SUB=L2 SSS FUL L3
L5            685 SEA FILE=REGISTRY ABB=ON  PLU=ON  SURFACTAN?
L6            221 SEA FILE=REGISTRY ABB=ON  PLU=ON  ETHYL(L)LACTATE
L8          36604 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L4
L9         254587 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L5 OR ?SURFACTANT?
L10          5753 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L6 OR ETHYL(2A)LACT?
L11          7427 SEA FILE=HCAPLUS ABB=ON  PLU=ON  POLYOXYETHYLENE(2A)(SORBITAN
                  OR ?LAUREAT? OR NONYLPHENYL OR NONYL(W)PHENYL)
L18            32 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L8 AND (?NEMATOD? OR NEMATIC?)

L19             4 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L18 AND (L9 OR L10 OR L11)
L20            28 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L18 NOT L19
L21            11 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L20 NOT NEMATIC
L22            80 SEA FILE=REGISTRY ABB=ON  PLU=ON  L4 AND (RICI? OR CREPEN? OR
                  VERNO?)
L23           745 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L22
L24           124 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L23 AND (L9 OR L10 OR L11)
L26             3 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L24 AND (?NEMATOD? OR
                  ?NEMATOC? OR ?PESTICI? OR ?NEMATOS?)
L27             3 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L26 NOT (L19 OR L21)
L28             2 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L24 AND AGROCHEM?
L29             2 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L28 NOT (L19 OR L21)
L30             3 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L29 OR L27
L59            18 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L19 OR L21 OR L30


=> select hit rn l59 1-18
E34 THROUGH E58 ASSIGNED

=> fil reg
FILE 'REGISTRY' ENTERED AT 08:52:36 ON 03 JUL 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2003 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:     1 JUL 2003  HIGHEST RN 540721-20-8
DICTIONARY FILE UPDATES:    1 JUL 2003  HIGHEST RN 540721-20-8

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available.  See HELP
PROPERTIES for more information.  See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> s e34-e58
             1 111-03-5/BI
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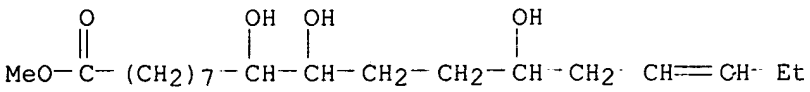
(111-03-5/RN)
1 112-62-9/BI
(112-62-9/RN)
1 112-63-0/BI
(112-63-0/RN)
1 1338-43-8/BI
(1338-43-8/RN)
1 9004-99-3/BI
(9004-99-3/RN)
1 9016-45-9/BI
(9016-45-9/RN)
1 9036-19-5/BI
(9036-19-5/RN)
1 1338-39-2/BI
(1338-39-2/RN)
1 140-04-5/BI
(140-04-5/RN)
1 141-24-2/BI
(141-24-2/RN)
1 2442-61-7/BI
(2442-61-7/RN)
1 28061-46-3/BI
(28061-46-3/RN)
1 2932-74-3/BI
(2932-74-3/RN)
1 301-00-8/BI
(301-00-8/RN)
1 38947-14-7/BI
(38947-14-7/RN)
1 4500-01-0/BI
(4500-01-0/RN)
1 50439-75-3/BI
(50439-75-3/RN)
1 53279-41-7/BI
(53279-41-7/RN)
1 61788-85-0/BI
(61788-85-0/RN)
1 61791-26-2/BI
(61791-26-2/RN)
1 683-10-3/BI
(683-10-3/RN)
1 9003-39-8/BI
(9003-39-8/RN)
1 9004-96-0/BI
(9004-96-0/RN)
1 9004-97-1/BI
(9004-97-1/RN)
1 9005-00-9/BI
(9005-00-9/RN)
L60 25 (111-03-5/BI OR 112-62-9/BI OR 112-63-0/BI OR 1338-43-8/BI OR 9004-99-3/BI OR 9016-45-9/BI OR 9036-19-5/BI OR 1338-39-2/BI OR 140-04-5/BI OR 141-24-2/BI OR 2442-61-7/BI OR 28061-46-3/BI OR 2932-74-3/BI OR 301-00-8/BI OR 38947-14-7/BI OR 4500-01-0/BI OR 50439-75-3/BI OR 53279-41-7/BI OR 61788-85-0/BI OR 61791-26-2/BI OR 683-10-3/BI OR 9003-39-8/BI OR 9004-96-0/BI OR 9004-97-1/BI OR 9005-00-9/BI)

=> s l60 and l4
L61 16 L60 AND L4

=> d ide can l61 1-16

L61 ANSWER 1 OF 16 REGISTRY COPYRIGHT 2003 ACS

RN **53279-41-7** REGISTRY
CN 15-Octadecenoic acid, 9,10,13-trihydroxy-, methyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C19 H36 O5
LC STN Files: CA, CAPLUS

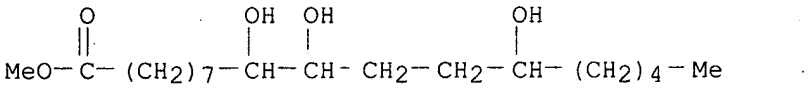


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1957 TO DATE)
1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 81:148630

L61 ANSWER 2 OF 16 REGISTRY COPYRIGHT 2003 ACS
RN **50439-75-3** REGISTRY
CN Octadecanoic acid, 9,10,13-trihydroxy-, methyl ester (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 9,10,13-Trihydroxyoctadecanoic acid methyl ester
FS 3D CONCORD
MF C19 H38 O5
LC STN Files: CA, CAPLUS



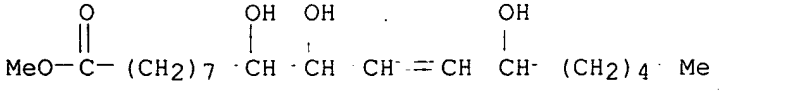
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1957 TO DATE)
2 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 102:45300

REFERENCE 2: 79:63557

L61 ANSWER 3 OF 16 REGISTRY COPYRIGHT 2003 ACS
RN **38947-14-7** REGISTRY
CN 11-Octadecenoic acid, 9,10,13-trihydroxy-, methyl ester (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Methyl 9,10,13-trihydroxy-11-octadecenoate
FS 3D CONCORD
MF C19 H36 O5
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

6 REFERENCES IN FILE CA (1957 TO DATE)
6 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 122:178121

REFERENCE 2: 110:91298

REFERENCE 3: 104:205650

REFERENCE 4: 88:1721

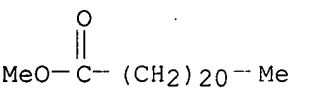
REFERENCE 5: 81:148630

REFERENCE 6: 77:33021

L61 ANSWER 4 OF 16 REGISTRY COPYRIGHT 2003 ACS
RN **28061-46-3** REGISTRY
CN Docosahexaenoic acid, methyl ester (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN Methyl docosahexaenoate
MF C23 H34 O2
CI IDS, COM
LC STN Files: AGRICOLA, ANABSTR, BIOSIS, CA, CAOLD, CAPLUS, CHEMCATS, CSCHEM, TOXCENTER, USPATFULL

CM 1

CRN 929-77-1
CMF C23 H46 O2



76 REFERENCES IN FILE CA (1957 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
76 REFERENCES IN FILE CAPLUS (1957 TO DATE)
24 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 134:365811

REFERENCE 2: 133:152219

REFERENCE 3: 133:149552

REFERENCE 4: 132:198742

REFERENCE 5: 130:217302

REFERENCE 6: 129:235405

REFERENCE 7: 129:190971

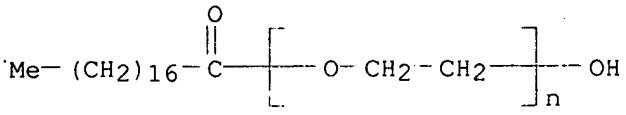
REFERENCE 8: 129:40384

REFERENCE 9: 127:295146

REFERENCE 10: 126:232873

L61 ANSWER 5 OF 16 REGISTRY COPYRIGHT 2003 ACS
RN **9004-99-3** REGISTRY
CN Poly(oxy-1,2-ethanediyl), .alpha.-(1-oxooctadecyl)-.omega.-hydroxy- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 40S
CN 40S (polyether)
CN 60S
CN 60S (polyether)
CN Akyporox S 100
CN Alkasurf S 65-8
CN Arosurf 1855E40
CN Atlox 5000
CN Capcure 65
CN Carbowax 1000 monostearate
CN Carbowax 1500 monostearate
CN Carbowax 4000 monostearate
CN Cerasynt 660
CN Cerasynt M
CN Cerasynt MN
CN Chemax E 1750MS
CN Chemax E 400MS
CN Cithrol 10MS
CN Cithrol 4MS
CN Cithrol PS
CN Clearate G
CN Cremofor 410R
CN Cremophor 410R
CN Cremophor S 9
CN Crill 20
CN Crill 21
CN Crill 22
CN Crill 23
CN Crodet S
CN Crodet S 100
CN Crodet S 24
CN Emalex 605
CN Emalex 6300M-ST
CN Emalex 804
CN Emanon 3113
CN Emanon 3115
CN Emanon 3119
CN Emanon 3170
CN Emanon 3199
CN Emcol H 35A
CN Emerest 2640
CN Emerest 2662
CN Emerest 2715
CN Emery 15393
CN Empilan CP 100
CN Empilan CQ 100
CN Ethofat 60/15
CN Ethofat 60/20
CN Ethofat 60/25
CN Ethoxylated stearic acid
ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for DISPLAY
DR 8035-96-9, 8050-55-3, 9009-90-9, 11107-94-1, 11108-48-8, 53228-13-0, 53335-42-5, 58375-39-6, 123543-87-3, 121340-91-8, 63654-37-5, 35885-17-7, 72993-78-3, 74870-86-3, 86473-52-1, 39404-30-3, 42610-76-4, 52504-21-9, 52504-22-0, 52504-23-1
MF (C2 H4 O)n C18 H36 O2

CI PMS, COM
PCT Polyether
LC STN Files: AQUIRE, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CAPLUS, CHEMCATS, CHEMLIST, CIN, CSCHEM, DDFU, DRUGU, EMBASE, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MSDS-OHS, NIOSHTIC, PROMT, RTECS*, TOXCENTER, USAN, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



2755 REFERENCES IN FILE CA (1957 TO DATE)
52 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
2758 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 139:12278

REFERENCE 2: 138:390957

REFERENCE 3: 138:390557

REFERENCE 4: 138:374195

REFERENCE 5: 138:373858

REFERENCE 6: 138:373856

REFERENCE 7: 138:373855

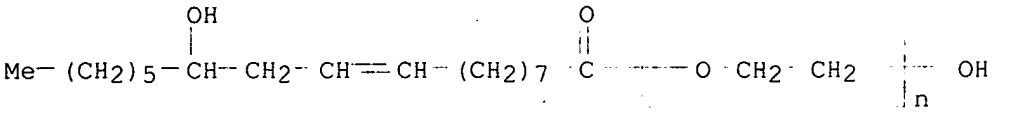
REFERENCE 8: 138:373834

REFERENCE 9: 138:358456

REFERENCE 10: 138:358199

L61 ANSWER 6 OF 16 REGISTRY COPYRIGHT 2003 ACS
RN **9004-97-1** REGISTRY
CN Poly(oxy-1,2-ethanediyl), .alpha.-[(9Z,12R)-12-hydroxy-1-oxo-9-octadecenyl]-.omega.-hydroxy- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Glycols, polyethylene, monoricinoleate (8CI)
CN Poly(oxy-1,2-ethanediyl), .alpha.-(12-hydroxy-1-oxo-9-octadecenyl)-.omega.-hydroxy-, [R-(Z)]-
CN Ricinoleic acid, monoester with polyethylene glycol (8CI)
OTHER NAMES:
CN Avlinox
CN Geopon SF 365
CN Polyethylene glycol 400 monoester of ricinoleic acid
CN Polyethylene glycol ester with ricinoleic acid
CN Polyethylene glycol monoricinoleate
CN Polyethylene glycol-ricinoleic acid monoester
CN Polyoxyethylene (600) monoricinoleate
CN Polyoxyethylene ricinoleate
CN Prodhyphore A
CN Prodhyphore E
CN Prodhyphore O
CN Ricinon

CN S 534
CN S 556U
DR 449759-36-8, 9006-38-6, 27731-60-8
MF (C2 H4 O)n C18 H34 O3
CI PMS, COM
PCT Polyether
LC STN Files: ANABSTR, CA, CAPLUS, CHEMLIST, CSCHEM, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPAT2, USPATFULL
Other Sources: DSL**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



63 REFERENCES IN FILE CA (1957 TO DATE)
63 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 137:357884

REFERENCE 2: 137:357881

REFERENCE 3: 137:190835

REFERENCE 4: 136:284430

REFERENCE 5: 133:271671

REFERENCE 6: 132:241751

REFERENCE 7: 130:68174

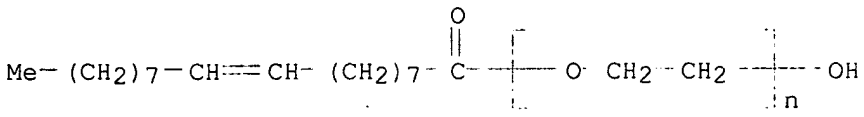
REFERENCE 8: 130:68172

REFERENCE 9: 128:80038

REFERENCE 10: 127:309379

L61 ANSWER 7 OF 16 REGISTRY COPYRIGHT 2003 ACS
RN **9004-96-0** REGISTRY
CN Poly(oxy-1,2-ethanediyl), .alpha.-[(9Z)-1-oxo-9-octadecenyl]-.omega.-hydroxy- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Adeka Estol OEG 204
CN Akyporox O 50
CN Alkamuls 400MO
CN Alkasurf O 14
CN Alkasurf O 75-9
CN Atlas G 2142
CN Atlas G 2143
CN Atlas G 2144
CN Atlas G 5507
CN Atlas G 5511
CN Cemulsol 1050
CN Cemulsol A
CN Cemulsol C 105
CN Cemulsol D 8
CN Chemax E 400MO
CN Chemester 300OC
CN Cithrol 2MO

CN Cithrol PO
CN CRL 1337
CN Crodet O 40
CN Crodet O 6
CN Dyapol G
CN E2
CN Emalex OE 1
CN Emalex OE 10
CN Emanon 4110
CN Emanon 4115
CN Emcol H 2A
CN Emcol H 31A
CN Emerest 2624
CN Emerest 2646
CN Emerest 2660
CN Empilan BP 100
CN Empilan BQ 100
CN Emulan A
CN Emulphor 24
CN Emulphor A
CN Emulphor VN 430
CN EN 1507
CN EN 1511
CN ES 120
CN Estax 38 S.F
CN Estax 38SE
CN Ethofat O
CN Ethofat O 15
CN Ethofat O 20
CN Ethox MO 14
CN Ethox MO 9
CN Ethoxylated oleic acid
CN Ethylan A 2
ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for DISPLAY
DR 12789-13-8, 8013-78-3, 8051-25-0, 9007-68-5, 1341-62-4, 55126-82-4, 55945-62-5, 103939-39-5, 37223-98-6, 37223-99-7, 37330-99-7, 141927-22-2, 82905-19-9, 39316-40-0, 41139-27-9, 52504-20-8
MF (C2 H4 O)n C18 H34 O2
CI PMS, COM
PCT Polyether
LC STN Files: ANABSTR, BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CIN, CSCHEM, DDFU, DRUGU, IFICDB, IFIPAT, IFIUDB, IPA, MSDS-OHS, RTECS*, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



1289 REFERENCES IN FILE CA (1957 TO DATE)
31 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1293 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 139:9093

REFERENCE 2: 139:8241

REFERENCE 3: 138:390559

REFERENCE 4: 138:386356

REFERENCE 5: 138:374186

REFERENCE 6: 138:323062

REFERENCE 7: 138:322398

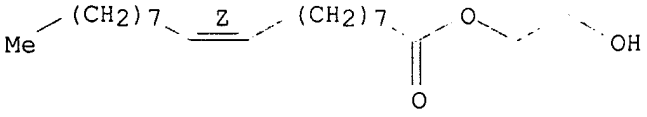
REFERENCE 8: 138:307302

REFERENCE 9: 138:288750

REFERENCE 10: 138:282799

L61 ANSWER 8 OF 16 REGISTRY COPYRIGHT 2003 ACS
RN **4500-01-0** REGISTRY
CN 9-Octadecenoic acid (9Z)-, 2-hydroxyethyl ester (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 9-Octadecenoic acid (Z)-, 2-hydroxyethyl ester
CN Ethylene glycol, monooleate (8CI)
CN Oleic acid, 2-hydroxyethyl ester (6CI, 7CI, 8CI)
OTHER NAMES:
CN 2-Hydroxyethyl oleate
CN Cithrol A
CN Ethylene glycol monooleate
CN Ethylene glycol oleate
FS STEREOSEARCH
MF C20 H38 O3
CI COM
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, IFICDB, IFIPAT, IFIUDB, MSDS-OHS, SPECINFO, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

75 REFERENCES IN FILE CA (1957 TO DATE)
2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
75 REFERENCES IN FILE CAPLUS (1957 TO DATE)
8 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:371434

REFERENCE 2: 138:234289

REFERENCE 3: 137:371576

REFERENCE 4: 137:371575

REFERENCE 5: 137:341881

REFERENCE 6: 137:327240

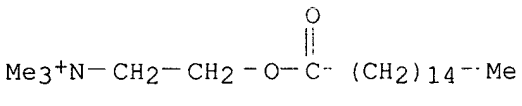
REFERENCE 7: 137:60510

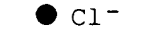
REFERENCE 8: 136:186444

REFERENCE 9: 135:361478

REFERENCE 10: 135:360078

L61 ANSWER 9 OF 16 REGISTRY COPYRIGHT 2003 ACS
RN **2932-74-3** REGISTRY
CN Ethanaminium, N,N,N-trimethyl-2-[(1-oxohexadecyl)oxy]-, chloride (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Choline, chloride, palmitate (7CI, 8CI)
CN Palmitic acid, ester with choline chloride (8CI)
OTHER NAMES:
CN Choline palmitate chloride
CN N-[.beta.-(Hexadecanoyloxy)ethyl]trimethylammonium chloride
CN Palmitoylcholine chloride
MF C21 H44 N O2 . Cl
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CHEMCATS, CHEMLIST, CSCHEM, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)
CRN (13100-90-8)





25 REFERENCES IN FILE CA (1957 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
25 REFERENCES IN FILE CAPLUS (1957 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 139:8465

REFERENCE 2: 138:14862

REFERENCE 3: 137:80665

REFERENCE 4: 134:344613

REFERENCE 5: 134:239190

REFERENCE 6: 132:313321

REFERENCE 7: 127:311406

REFERENCE 8: 127:26530

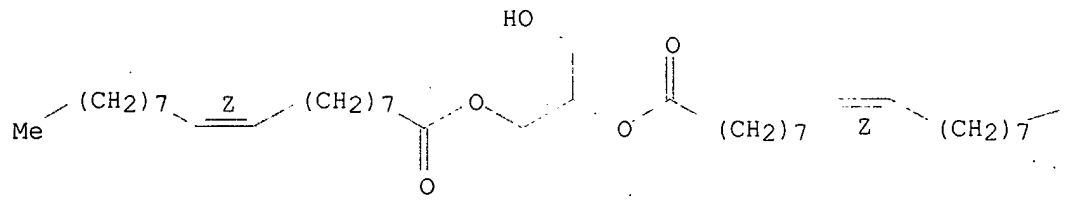
REFERENCE 9: 121:257789

REFERENCE 10: 117:207154

L61 ANSWER 10 OF 16 REGISTRY COPYRIGHT 2003 ACS
RN **2442-61-7** REGISTRY
CN 9-Octadecenoic acid (9Z)-, 1-(hydroxymethyl)-1,2-ethanediyl ester (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 9-Octadecenoic acid (Z)-, 1-(hydroxymethyl)-1,2-ethanediyl ester
CN Olein, 1,2-di- (6CI, 7CI, 8CI)
OTHER NAMES:
CN (.+-.)-1,2-Diolein
CN (.+-.)-1,2-Dioleoylglycerol
CN 1,2-Diolein
CN 1,2-Dioleoyl-DL-glycerol
CN 1,2-Dioleoyl-rac-glycerol
CN 1,2-Dioleoylglycerol
CN Glycerol 1,2-dioleate
FS STEREOSEARCH
DR 3738-74-7
MF C39 H72 O5
CI COM
LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CSCHEM, GMELIN*, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)

Double bond geometry as shown.

PAGE 1-A



PAGE 1-B

Me

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

355 REFERENCES IN FILE CA (1957 TO DATE)
6 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
356 REFERENCES IN FILE CAPLUS (1957 TO DATE)
10 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:397875

REFERENCE 2: 138:102642

REFERENCE 3: 137:383844

REFERENCE 4: 137:129888

REFERENCE 5: 137:46087

REFERENCE 6: 136:324255

REFERENCE 7: 136:232761

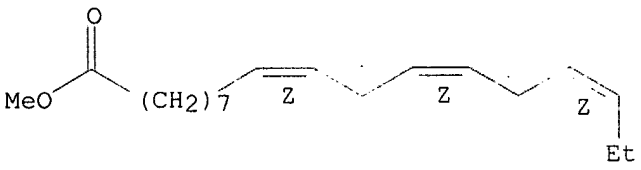
REFERENCE 8: 136:146857

REFERENCE 9: 136:136559

REFERENCE 10: 136:98165

L61 ANSWER 11 OF 16 REGISTRY COPYRIGHT 2003 ACS
RN **301-00-8** REGISTRY
CN 9,12,15-Octadecatrienoic acid, methyl ester, (9Z,12Z,15Z)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 9,12,15-Octadecatrienoic acid, methyl ester, (Z,Z,Z)-
CN Linolenic acid, methyl ester (6CI, 8CI)
OTHER NAMES:
CN .alpha.-Linolenic acid methyl ester
CN Methyl (9Z,12Z,15Z)-octadecatrienoate
CN Methyl .alpha.-linolenate
CN Methyl all-cis-9,12,15-octadecatrienoate
CN Methyl cis,cis,cis-octadeca-9,12,15-trienoate
CN Methyl linolenate
FS STEREOSEARCH
MF C19 H32 O2
CI COM
LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CSCHEM, DETHERM*, EMBASE, HODOC*, IFICDB, IFIPAT, IFIUDB, IPA, NAPRALERT, PROMT, SPECINFO, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

930 REFERENCES IN FILE CA (1957 TO DATE)
41 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
931 REFERENCES IN FILE CAPLUS (1957 TO DATE)
76 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 139:5984

REFERENCE 2: 138:401510

REFERENCE 3: 138:369408

REFERENCE 4: 138:319917

REFERENCE 5: 138:290267

REFERENCE 6: 138:253787

REFERENCE 7: 138:240540

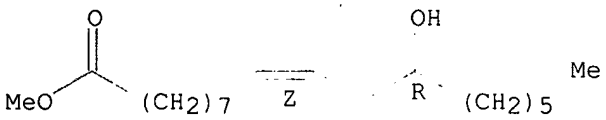
REFERENCE 8: 138:186700

REFERENCE 9: 138:186690

REFERENCE 10: 138:85391

L61 ANSWER 12 OF 16 REGISTRY COPYRIGHT 2003 ACS
RN **141-24-2** REGISTRY
CN 9-Octadecenoic acid, 12-hydroxy-, methyl ester, (9Z,12R)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 9-Octadecenoic acid, 12-hydroxy-, methyl ester, [R-(Z)]-
CN Ricinoleic acid, methyl ester (6CI, 8CI)
OTHER NAMES:
CN cis-Ricinoleic acid methyl ester
CN Flexricin P 1
CN Methyl 12-D-hydroxy-9-cis-octadecenoate
CN Methyl ricinate
CN Methyl ricinoleate
CN Ricinic acid methyl ester
FS STEREOSEARCH
DR 7705-99-9
MF C19 H36 O3
CI COM
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMLIST, CSCHEM, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, PROMT, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

384 REFERENCES IN FILE CA (1957 TO DATE)
24 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
385 REFERENCES IN FILE CAPLUS (1957 TO DATE)
46 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:256855

REFERENCE 2: 138:239188

REFERENCE 3: 138:171914

REFERENCE 4: 138:152314

REFERENCE 5: 138:105948

REFERENCE 6: 138:89592

REFERENCE 7: 138:71953

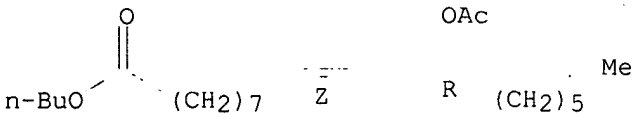
REFERENCE 8: 138:14532

REFERENCE 9: 137:371646

REFERENCE 10: 137:338626

L61 ANSWER 13 OF 16 REGISTRY COPYRIGHT 2003 ACS
RN **140-04-5** REGISTRY
CN 9-Octadecenoic acid, 12-(acetyloxy)-, butyl ester, (9Z,12R)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 9-Octadecenoic acid, 12-(acetyloxy)-, butyl ester, [R-(Z)]-
CN Ricinoleic acid, butyl ester, acetate (6CI, 7CI, 8CI)
OTHER NAMES:
CN Bakers P 6
CN Baryl
CN Butyl acetyl ricinoleate
CN Flexricin P 6
FS STEREOSEARCH
DR 26302-38-5
MF C24 H44 O4
LC STN Files: AQUIRE, BEILSTEIN*, CA, CAOLD, CAPLUS, CHEMCATS, CHEMLIST, CHEMSAFE, CIN, CSCHEM, DETHERM*, IFICDB, IFIPAT, IFIUDB, MSDS-OHS, PDLCOM*, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

51 REFERENCES IN FILE CA (1957 TO DATE)
51 REFERENCES IN FILE CAPLUS (1957 TO DATE)
4 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 139:12371

REFERENCE 2: 137:338626

REFERENCE 3: 137:129570

REFERENCE 4: 137:37389

REFERENCE 5: 136:228374

REFERENCE 6: 134:32785

REFERENCE 7: 130:353075

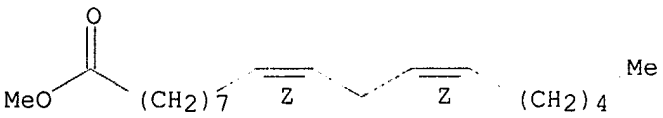
REFERENCE 8: 124:97840

REFERENCE 9: 123:244642

REFERENCE 10: 123:200625

L61 ANSWER 14 OF 16 REGISTRY COPYRIGHT 2003 ACS
RN **112-63-0** REGISTRY
CN 9,12-Octadecadienoic acid (9Z,12Z)-, methyl ester (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 9,12-Octadecadienoic acid (Z,Z)-, methyl ester
CN Linoleic acid, methyl ester (6CI, 8CI)
OTHER NAMES:
CN (9Z,12Z)-9,12-Octadecadienoic acid methyl ester
CN (9Z,12Z)-Octadecadienoic acid methyl ester
CN Methyl (9Z,12Z)-octadecadienoate
CN Methyl (Z,Z)-9,12-octadecadienoate
CN Methyl 9-cis,12-cis-octadecadienoate
CN Methyl cis,cis-9,12-octadecadienoate
CN Methyl cis-9,cis-12 linoleate
CN Methyl cis-9,cis-12-octadecadienoate
CN Methyl linoleate
CN Methyl octadec-9,12-dienoate
FS STEREOSEARCH
MF C19 H34 O2
CI COM
LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CSCHEM, DDFU, DETHERM*, DRUGU, EMBASE, HODOC*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PIRA, PROMT, SPECINFO, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2271 REFERENCES IN FILE CA (1957 TO DATE)
122 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
2276 REFERENCES IN FILE CAPLUS (1957 TO DATE)
178 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 139:5984

REFERENCE 2: 138:400622

REFERENCE 3: 138:354021

REFERENCE 4: 138:344486

REFERENCE 5: 138:333409

REFERENCE 6: 138:320123

REFERENCE 7: 138:319917

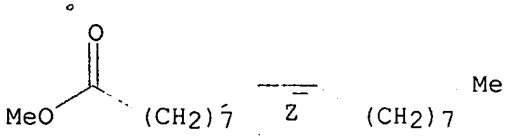
REFERENCE 8: 138:305819

REFERENCE 9: 138:305817

REFERENCE 10: 138:304095

L61 ANSWER 15 OF 16 REGISTRY COPYRIGHT 2003 ACS
RN **112-62-9** REGISTRY
CN 9-Octadecenoic acid (9Z)-, methyl ester (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 9-Octadecenoic acid (Z)-, methyl ester
CN Oleic acid, methyl ester (6CI, 8CI)
OTHER NAMES:
CN (Z)-9-Octadecenoic acid methyl ester
CN ADJ 100
CN cis-9-Octadecenoic acid methyl ester
CN Edenor Me 90/95V
CN Edenor MeTiO5
CN Emerest 2801
CN Emery 2301
CN Esterol 112
CN Exceparl M-OL
CN Methyl (Z)-9-octadecenoate
CN Methyl cis-9-octadecenoate
CN Methyl oleate
CN Nissan Unister M 182A
CN Phytorob 926-67
CN Priolube 1403
CN Radia 7060
CN Unister M 182A
CN Witconol 2301
FS STEREOSEARCH
DR 139152-82-2
MF C19 H36 O2
CI COM
LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, DDFU, DETHERM*, DIPPR*, DRUGU, EMBASE, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3098 REFERENCES IN FILE CA (1957 TO DATE)
159 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
3103 REFERENCES IN FILE CAPLUS (1957 TO DATE)
233 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 139:9262

REFERENCE 2: 139:8442

REFERENCE 3: 139:6582

REFERENCE 4: 138:409394

REFERENCE 5: 138:403163

REFERENCE 6: 138:401510

REFERENCE 7: 138:390526

REFERENCE 8: 138:384533

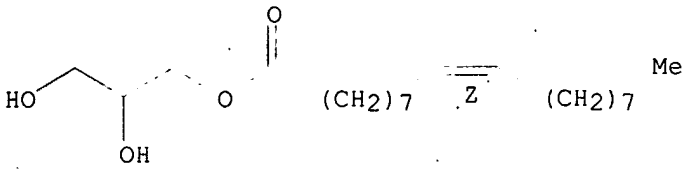
REFERENCE 9: 138:373524

REFERENCE 10: 138:369249

L61 ANSWER 16 OF 16 REGISTRY COPYRIGHT 2003 ACS
RN **111-03-5** REGISTRY
CN 9-Octadecenoic acid (9Z)-, 2,3-dihydroxypropyl ester (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 9-Octadecenoic acid (Z)-, 2,3-dihydroxypropyl ester
CN Olein, 1-mono- (8CI)
OTHER NAMES:
CN .alpha.-Monoolein
CN 1-Glyceryl oleate
CN 1-Mono(cis-9-octacenoyl)glycerol
CN 1-Monoolein
CN 1-Monooleoyl-rac-glycerol
CN 1-Monooleoylglycerol
CN 1-Oleoylglycerol
CN 1-Oleylglycerol
CN 2,3-Dihydroxypropyl oleate
CN Danisco MO 90
CN Dimodan MO 90
CN Glycerin 1-monooleate
CN Glycerol .alpha.-cis-9-octadecenate
CN Glycerol .alpha.-monooleate
CN Glycerol 1-monooleate
CN Glycerol 1-oleate
CN Glyceryl monooleate
CN rac-1-Monoolein
CN rac-1-Monooleoylglycerol
CN Rylo MG 19
FS STEREOSEARCH
DR 925-14-4, 30836-40-9, 33978-07-3
MF C21 H40 O4
CI COM
LC STN Files: AGRICOLA, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DETHERM*, DIPPR*, EMBASE, GMELIN*, HODOC*, IFICDB, IFIPAT, IFIUDB, MSDS-OHS, NAPRALERT, PIRA, PROMT, SPECINFO, TOXCENTER, USPAT2, USPATFULL

(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

642 REFERENCES IN FILE CA (1957 TO DATE)
11 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
643 REFERENCES IN FILE CAPLUS (1957 TO DATE)
16 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 139:5940

REFERENCE 2: 138:364517

REFERENCE 3: 138:322000

REFERENCE 4: 138:299792

REFERENCE 5: 138:292767

REFERENCE 6: 138:226482

REFERENCE 7: 138:165481

REFERENCE 8: 138:159427

REFERENCE 9: 138:158831

REFERENCE 10: 138:121733

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=> fil hcaplus
FILE 'HCAPLUS' ENTERED AT 08:02:35 ON 03 JUL 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)
```



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FILE COVERS 1907 - 3 Jul 2003  VOL 139 ISS 1
FILE LAST UPDATED: 2 Jul 2003  (20030702/ED)

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.


=>
=>

=> d stat que
L1               STR

            6
            O
            ||
C~^G1~^O~ ~C~ G2~ C
1   2   3   4   5   7

REP G1=(0-4) C
REP G2=(14-19) C
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS   7

STEREO ATTRIBUTES: NONE
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L3               STR
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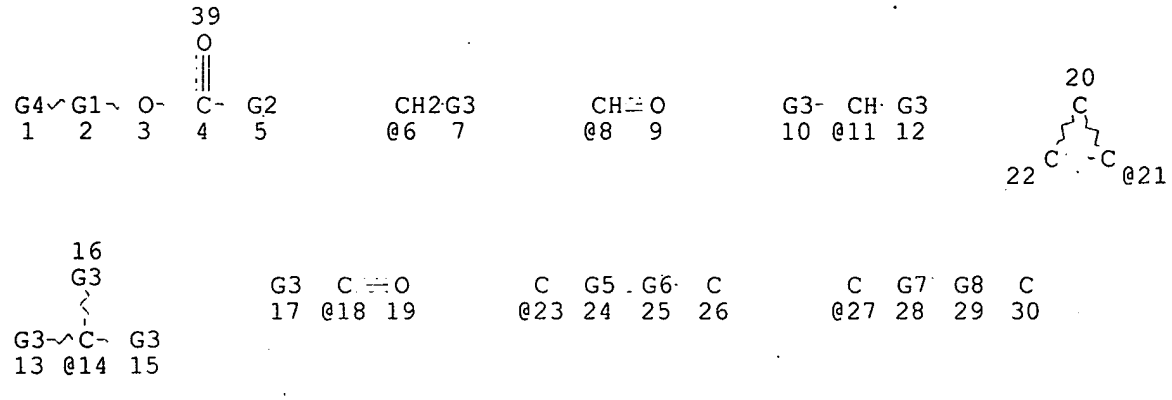

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VAR G4=CH3/6/8/11/14/18
REP G5=(8-8) C
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REP G7=(11-11) C
REP G8=(2-6) C
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 39

STEREO ATTRIBUTES: NONE

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L5          685 SEA FILE=REGISTRY ABB=ON  PLU=ON  SURFACTAN?
L6          221 SEA FILE=REGISTRY ABB=ON  PLU=ON  ETHYL(L)LACTATE
L8        36604 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L4
L9       254587 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L5 OR ?SURFACTANT?
L10        5753 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L6 OR ETHYL(2A)LACT?
L11        7427 SEA FILE=HCAPLUS ABB=ON  PLU=ON  POLYOXYETHYLENE(2A)(SORBITAN
                OR ?LAUREAT? OR NONYLPHENYL OR NONYL(W)PHENYL)
L18          32 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L8 AND (?NEMATOD? OR NEMATIC?)

L19           4 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L18 AND (L9 OR L10 OR L11)
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=>
=>

=> d ibib abs hitstr l19 1-4

L19 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:693006 HCAPLUS
DOCUMENT NUMBER: 135:253265
TITLE: Pesticidal compositions containing silicon esters
INVENTOR(S): Guzman, Josef; Paz, Asaf
PATENT ASSIGNEE(S): Kidron Agrochem Ltd., Israel
SOURCE: PCT Int. Appl., 18 pp.

CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001067863	A2	20010920	WO 2001-IL251	20010315
WO 2001067863	A3	20020613		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

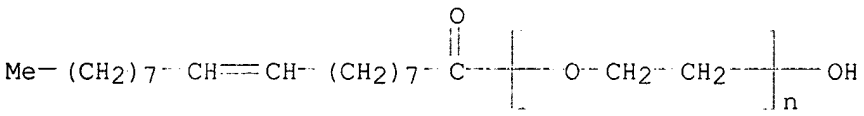
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: IL 2000-135092 A 20000315

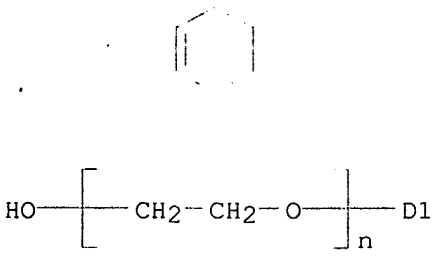
AB Pesticidal compns. comprising as the active component a silicon ester R1A(R2O)B(R3O)CSiO[R1D(R4O)ER5FSiO]x[R1GR5PR6QSiO]YR4 (Markush included) are prepd. and used for controlling insects, mites, **nematodes** and fungi.

IT **9004-96-0**, Poly(ethylene glycol) monooleate **9016-45-9**, Tergitol NP-10 **9036-19-5**, Igepal-CA-720
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of silicon esters as pesticides)

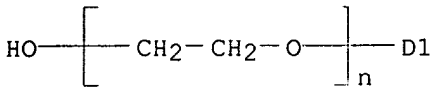
RN 9004-96-0 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), .alpha.-[(9Z)-1-oxo-9-octadecenyl]-.omega.-hydroxy- (9CI) (CA INDEX NAME)

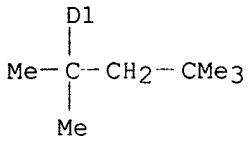


RN 9016-45-9 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy- (9CI) (CA INDEX NAME)



RN 9036-19-5 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy- (9CI) (CA INDEX NAME)

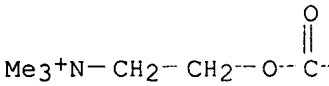




L19 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1997:294417 HCAPLUS
DOCUMENT NUMBER: 127:26530
TITLE: Mesophase formation of quaternary and bisquaternary ammonium **surfactants** in binary aqueous systems
AUTHOR(S): Dorfler, Hans Dieter; Swaboda, Christiane; Jacobi, Renate; Beger, Jorg
CORPORATE SOURCE: Fachrichtung Chemie, Technische Universitat Dresden, Dresden, D-01062, Germany
SOURCE: Tenside, Surfactants, Detergents (1997), 34(2), 112-116
CODEN: TSDEES; ISSN: 0932-3414
PUBLISHER: Hanser
DOCUMENT TYPE: Journal
LANGUAGE: German

AB Three groups of new quaternary and bisquaternary ammonium chlorides were investigated using the so-called penetration method (contact samples). The lyotropic mesophases were identified by texture observations of contact samples. Lamellar, hexagonal, cubic, and lyotropic **nematic** phases were obsd. The phase sequences in the binary aq. systems were dependent on the chem. structure of the quaternary and bisquaternary ammonium chlorides.

IT **2932-74-3**
RL: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process)
(mesophase formation of quaternary ammonium **surfactants** in binary aq. systems)
RN 2932-74-3 HCAPLUS
CN Ethanaminium, N,N,N-trimethyl-2-[(1-oxohexadecyl)oxy]-, chloride (9CI) (CA INDEX NAME)



L19 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1995:726345 HCAPLUS
DOCUMENT NUMBER: 123:163317
TITLE: Adjuvant-enhanced compositions for **nematode** control.
INVENTOR(S): Ahlgrim, Jeanette Tracy; Kassebaum, James Web; Shortt, Barry James; Warner, James Michael
PATENT ASSIGNEE(S): Monsanto Co., USA
SOURCE: PCT Int. Appl., 52 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

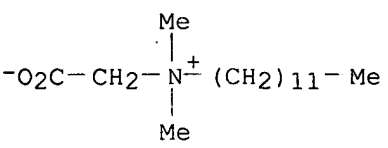
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9512977	A1	19950518	WO 1994-US11731	19941020
W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, JP, KG, KR, KZ, LK, LR, LT, LV, MD, MG, MN, NO, NZ, PL, RO, RU, SI, SK, TJ, TT, UA, US, UZ, VN				
RW: KE, MW, SD, SZ, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2173160	AA	19950518	CA 1994-2173160	19941020
AU 9480785	A1	19950529	AU 1994-80785	19941020
EP 723397	A1	19960731	EP 1994-931860	19941020
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
CN 1134656	A	19961030	CN 1994-194086	19941020
BR 9408011	A	19961217	BR 1994-8011	19941020
HU 75106	A2	19970428	HU 1996-1243	19941020
JP 09506085	T2	19970617	JP 1994-513829	19941020
ZA 9408828	A	19960320	ZA 1994-8828	19941108
FI 9601949	A	19960508	FI 1996-1949	19960508
NO 9601863	A	19960708	NO 1996-1863	19960508

PRIORITY APPLN. INFO.: US 1993-149429 19931109
WO 1994-US11731 19941020

AB Compns. for controlling **nematode**, insect or acarid infestation of a plant, comprise XYC:CZ(CH2)nQ (Q=CH2NH2, CH2NO2, CH2N:C:O, etc.; X,Y,Z= H or F; n=1,3,5,7,9 or 11) in combination with activity-enhancing adjuvants, i.e. wetting, dispersing or emulsifying agents, preferably Improve or Tergitol 15-S-12. Thus, the effectiveness of N-(3,4,4-trifluoro-1-oxo-3-butenyl)glycine against Meloidogyne incognita, on tomato, was enhanced by Improve.

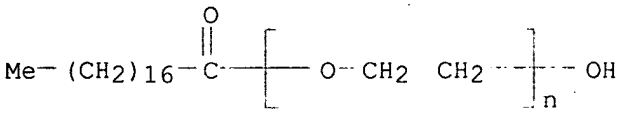
IT **683-10-3**, Varion CDG-K **9004-99-3**, Simulsol M 52
9016-45-9, Ethoxylated nonylphenol **9036-19-5**, R 11
61791-26-2, MON 0818
RL: AGR (Agricultural use); MOA (Modifier or additive use); BIOL (Biological study); USES (Uses)
(adjuvant-enhanced compns. for **nematode** control)

RN 683-10-3 HCAPLUS
CN 1-Dodecanaminium, N-(carboxymethyl)-N,N-dimethyl-, inner salt (9CI) (CA INDEX NAME)

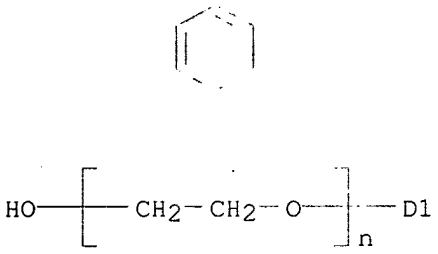


RN 9004-99-3 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-(1-oxooctadecyl)-.omega.-hydroxy- (9CI) (CA INDEX NAME)

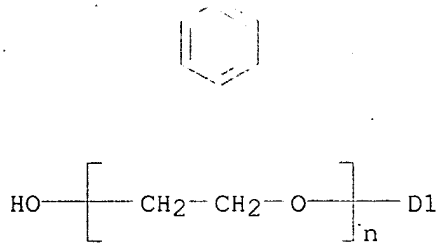


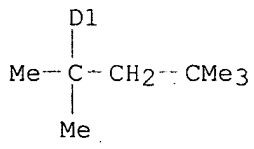
RN 9016-45-9 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy- (9CI) (CA INDEX NAME)



D1—(CH2)8—Me

RN 9036-19-5 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy- (9CI) (CA INDEX NAME)





RN 61791-26-2 HCAPLUS **
CN Amines, tallow alkyl, ethoxylated (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

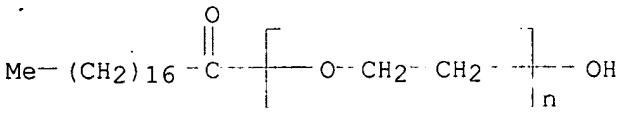
L19 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1983:585441 HCAPLUS
DOCUMENT NUMBER: 99:185441
TITLE: Elastic deformations and electrohydrodynamic instabilities in large pitch cholesteric liquid crystals under an electric field

AUTHOR(S): Sartirana, M. L.; Valenti, B.; Bartolino, R.
CORPORATE SOURCE: Ist. Chim. Ind., Univ. Genova, Genoa, Italy
SOURCE: Molecular Crystals and Liquid Crystals (1983), 98(1-4), 321-47
CODEN: MCLCA5; ISSN: 0026-8941
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Large pitch cholesteric liq. crystals in the planar geometry submitted to d.c. or low frequency a.c. fields applied along the helical axis were studied. An elec. field can cause orientation of the mols. in the field direction (tilting of the helical axis leading to a fingerprint texture and unwinding of the cholesteric spiral) or disruption of the orientation due to the hydrodynamic effect of current carriers (periodic 2-dimensional deformations). The behavior of the samples depends upon the sign and the abs. value of the dielec. anisotropy .epsilon.a. A wide range of systems was studied by using **nematic** matrices with .epsilon.a between -4 and +33 doped with small amts. of cholesteryl chloride (.epsilon.a > 0) and cholesteryl benzoate (.epsilon.a < 0). Instabilities are obsd. in neg. .epsilon.a mixts.; depending upon the frequency, 2 regimes can be found, as in **nematics**. The behavior above threshold depends largely on the magnitude of the neg. anisotropy. In the case of a small pos. .epsilon.a, domain instabilities and elastic deformations occur. The nature and the amt. of the cholesteric dopant affect the threshold for the square grid deformation. The response of mixts. with strong .epsilon.a involves processes in which the orientation of the mols. by the field is the principal effect. Upon increasing the voltage, the instabilities of the **nematic** phase in the homeotropic geometry appear in the form of a conduction and dielec. regime of splay. The Frank elastic consts. were derived from the threshold field of the different deformations.

IT **9004-99-3**
RL: PRP (Properties)
(liq. crystal contg., elastic deformation and electrohydrodynamic instabilities in large pitch cholesteric, in elec. fields)

RN 9004-99-3 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), .alpha.-(1-oxooctadecyl)-.omega.-hydroxy- (9CI) (CA INDEX NAME)



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L3              STR
L4        23930 SEA FILE=REGISTRY SUB=L2 SSS FUL L3
L5          685 SEA FILE=REGISTRY ABB=ON  PLU=ON  SURFACTAN?
L6          221 SEA FILE=REGISTRY ABB=ON  PLU=ON  ETHYL(L)LACTATE
L8        36604 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L4
L9       254587 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L5 OR ?SURFACTANT?
L10        5753 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L6 OR ETHYL(2A)LACT?
L11        7427 SEA FILE=HCAPLUS ABB=ON  PLU=ON  POLYOXYETHYLENE(2A)(SORBITAN
                OR ?LAUREAT? OR NONYLPHENYL OR NONYL(W)PHENYL)
L18          32 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L8 AND (?NEMATOD? OR NEMATIC?)

L19           4 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L18 AND (L9 OR L10 OR L11)
L20          28 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L18 NOT L19
L21          11 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L20 NOT NEMATIC


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=>

=> d ibib abs hitstr l21 1-11

L21 ANSWER 1 OF 11  HCAPLUS  COPYRIGHT 2003 ACS
ACCESSION NUMBER:         2001:828001  HCAPLUS
DOCUMENT NUMBER:          136:82928
TITLE:                    Interaction of intrinsic and extrinsic chemical cues
                          in the behaviour of Bursaphelenchus xylophilus
                          (Aphelenchida: Aphelenchoididae) in relation to its
                          beetle vectors
AUTHOR(S):                Stamps, W. Terrell; Linit, Marc J.
CORPORATE SOURCE:         Department of Entomology, University of Missouri,
                          Columbia, MO, 65211, USA
SOURCE:                   Nematology (2001), 3(4), 295-301
                          CODEN: NMATFJ; ISSN: 1388-5545
PUBLISHER:                Brill Academic Publishers
DOCUMENT TYPE:            Journal
LANGUAGE:                 English
AB   Bursaphelenchus xylophilus, its host trees and beetle vectors represent an
     unusual ecol. system.  The fourth stage, dispersal juvenile (JIV) of B.
     xylophilus is a specialized life stage that must alter its response to a
     variety of chem. cues over time to properly enter and exit its beetle
     vector.  Neutral storage (NS) lipid content is proposed as a modifier of
     nematode response to beetle- and tree-produced volatiles.  The
     chemotactic response of JIV to a variety of chems. was tested and the
     lipid contents of JIV attracted to particular chems. were quantified.
     Nematodes with the lowest NS lipid content were attracted to
     .beta.-myrcene, a pine volatile, while nematodes with the
     highest NS lipid content were attracted to toluene, a beetle cuticular
     hydrocarbon.  A rolling fulcrum model of the integration of intrinsic (NS
     lipid) and extrinsic (volatiles) cues is proposed to explain the
     behavioral ontogeny of JIV in relation to the beetle vector.
IT   111-03-5, 1-Monoolein
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (interaction of intrinsic and extrinsic chem. cues in the behavior of
        Bursaphelenchus xylophilus in relation to its beetle vectors)
RN   111-03-5  HCAPLUS
CN   9-Octadecenoic acid (9Z)-, 2,3-dihydroxypropyl ester (9CI)  (CA INDEX
     NAME)

Double bond geometry as shown.
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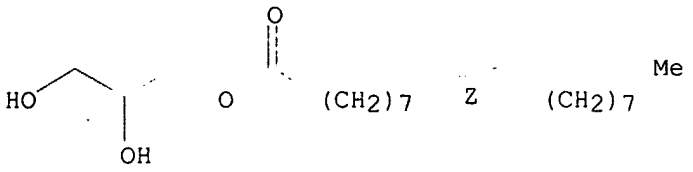


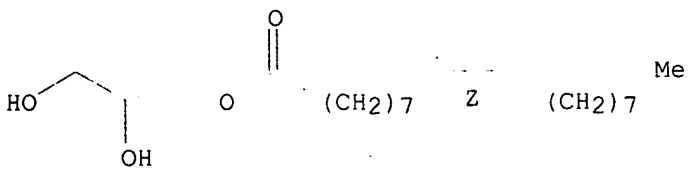
REFERENCE COUNT: 47 THERE ARE 47 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 2 OF 11 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1998:433819 HCAPLUS
DOCUMENT NUMBER: 129:200777
TITLE: Chemotactic response of propagative and dispersal forms of the pinewood **nematode** Bursaphelenchus xylophilus to beetle and pine derived compounds
AUTHOR(S): Stamps, William T.; Linit, Marc J.
CORPORATE SOURCE: Department of Entomology, University of Missouri, Columbia, MO, 65211, USA
SOURCE: Fundamental and Applied Nematology (1998), 21(3), 243-250
CODEN: FAPNE5; ISSN: 1164-5571
PUBLISHER: Editions Scientifiques et Medicales Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English

AB A specialized life stage of the **nematode** Bursaphelenchus xylophilus, the JIV dispersal juvenile, is vectored to pine trees by cerambycid beetles in the genus Monochamus. The propagative form of the **nematode** develops and reproduces in susceptible pine trees. The chemotactic response of JIVs and the mediation of JIV exit from beetle vectors are poorly understood. Expts. were conducted examg. chem. attraction by **nematodes** across representatives of fatty acid, monoterpene and hydrocarbon groups. Chem. attraction between propagative and dispersal forms of the **nematode** was compared. The influence of chem. attraction on JIV exit from beetles was also examd. Propagative B. xylophilus were attracted to the fatty acids, linoleic acid and 1-monoolein, while JIVs were attracted to .beta.-myrcene and toluene. The presence of neither fatty acids, monoterpenes nor hydrocarbons affected nos. of JIVs exiting beetles. It is suggested that other factors, possibly endogenous in nature, are also involved in JIV exit behavior.

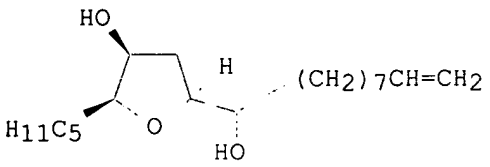
IT **111-03-5**, 1-Monoolein
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(Chemotactic response of propagative and dispersal forms of the pinewood **nematode** Bursaphelenchus xylophilus to beetle and pine derived compds.)
RN 111-03-5 HCAPLUS
CN 9-Octadecenoic acid (9Z)-, 2,3-dihydroxypropyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.



REFERENCE COUNT: 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 3 OF 11 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1998:122784 HCAPLUS
DOCUMENT NUMBER: 128:230174
TITLE: Marine nematocides: tetrahydrofurans from a southern Australian brown alga, Notheia anomala
AUTHOR(S): Capon, Robert J.; Barrow, Russell A.; Rochfort, Simone; Jobling, Michael; Skene, Colin
CORPORATE SOURCE: School of Chemistry, University of Melbourne, Parkville, 3052, Australia
SOURCE: Tetrahedron (1998), 54(10), 2227-2242
CODEN: TETRAB; ISSN: 0040-4020
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

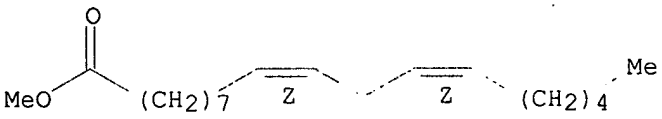


I

AB Chem. anal. of N. anomala collected off rock platforms along the southern coast of Australia yielded a cis-dihydroxytetrahydrofuran I and the structure was assigned by spectroscopic anal., chem. derivatization and biomimetic synthesis. Tetrahydrofurans from Notheia anomala are reported for the first time as potent and selective inhibitors of the larval development of parasitic **nematodes**. SAR observations are made on a selection of natural, semi-synthetic and synthetic tetrahydrofurans.

IT **112-63-0**, Methyl linoleate
RL: RCT (Reactant); RACT (Reactant or reagent)
(isolation of tetrahydrofurans from brown alga, Notheia anomala, their synthetic prepn. and nematocidal activity)
RN 112-63-0 HCAPLUS
CN 9,12-Octadecadienoic acid (9Z,12Z)-, methyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 4 OF 11 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1994:426329 HCAPLUS
DOCUMENT NUMBER: 121:26329
TITLE: Fatty acids and other compounds with nematocidal activity from cultures of Basidiomycetes
AUTHOR(S): Stadler, Marc; Mayer, Anke; Anke, Heidrun; Sterner, Olov
CORPORATE SOURCE: Lehrbereich Biotechnol., Univ. Kaiserslautern, Kaiserslautern, D-67663, Germany

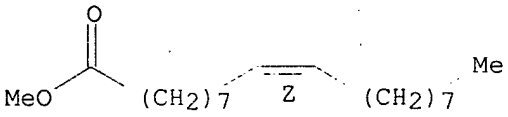
SOURCE: Planta Medica (1994), 60(2), 128-32
CODEN: PLMEAA; ISSN: 0032-0943
DOCUMENT TYPE: Journal
LANGUAGE: English

AB In the screening for nematocidal activities in cultures of Basidiomycetes, cultures of P. pulmonarius and Hericium coralloides exhibited toxic effects towards the saprophytic **nematode** Caenorhabditis elegans. Subsequently S-coriolic acid (1), linoleic acid (2), p-anisaldehyde (3), p-anisyl alc. (4), 1-(4-methoxyphenyl)-1,2-propanediol (5), and 2-hydroxy-(4'-methoxy)propiophenone (6) were isolated from submerged cultures of P. pulmonarius. All compds. showed nematocidal activities towards C. elegans. The most active compds. were 1 and 2 with LD50 values between 5 and 10 ppm. Compds. 1, 4, and 5 have not been previously isolated from higher fungi, 6 is a new natural product. From cultures of H. coralloides, which exhibited both repellent and nematocidal effects, a nematocidal fatty acid mixt. was obtained, contg. linoleic acid, oleic acid, and palmitic acid as its main components.

IT **112-62-9**, Oleic acid methyl ester **112-63-0**, Linoleic acid methyl ester **301-00-8**, Linolenic acid methyl ester
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(nematocidal activity of)

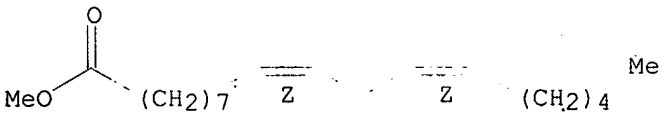
RN 112-62-9 HCAPLUS
CN 9-Octadecenoic acid (9Z)-, methyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.



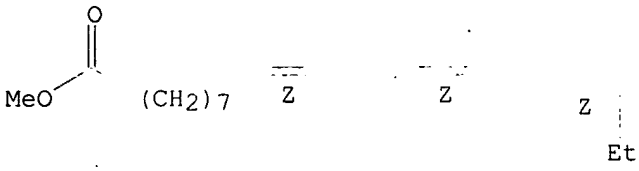
RN 112-63-0 HCAPLUS
CN 9,12-Octadecadienoic acid (9Z,12Z)-, methyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 301-00-8 HCAPLUS
CN 9,12,15-Octadecatrienoic acid, methyl ester, (9Z,12Z,15Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L21 ANSWER 5 OF 11 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1993:161072 HCAPLUS
DOCUMENT NUMBER: 118:161072
TITLE: Methods and compositions using polyunsaturated fatty

acids for treating malaria and other diseases
INVENTOR(S): Ferrante, Antonio; Poulos, Alfred; Kumaratilake, Lakshmi Malkanthi; Robinson, Brenton Scott
PATENT ASSIGNEE(S): Adelaide Children's Hospital, Australia
SOURCE: PCT Int. Appl., 44 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9300084	A1	19930107	WO 1992-AU313	19920624
W: AT, AU, BB, BG, BR, CA, CH, CS, DE, DK, ES, FI, GB, HU, JP, KP, KR, LK, LU, MG, MN, MW, NL, NO, PL, RO, RU, SD, SE, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, SN, TD, TG				
AU 9221726	A1	19930125	AU 1992-21726	19920624
AU 665356	B2	19960104		
EP 591303	A1	19940413	EP 1992-912835	19920624
EP 591303	B1	20001206		
R: CH, DE, DK, ES, FR, GB, IT, LI, SE				
JP 06511479	T2	19941222	JP 1992-501269	19920624
US 5604258	A	19970218	US 1994-170176	19940314

PRIORITY APPLN. INFO.: AU 1991-6830 A 19910624
WO 1992-AU313 A 19920624

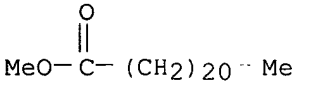
AB C1-30 polyunsatd. fatty acids, and derivs. and oxidn. products thereof, have activity against protozoan and helminth parasites, bacteria, fungi, Chlamydia, Mycoplasma, Rickettsia, and viruses. These compds. also have antitumor activity. Docosahexaenocid acid (C22:6) (I) inhibited Plasmodium falciparum, Trypanosoma musculi, and Naegleria fowleri, and showed anti-malarial activity in vivo. I also killed B16 melanoma cells.

IT **28061-46-3**, Docosahexaenoic acid methyl ester
RL: BIOL (Biological study)
(Plasmodium falciparum inhibition by)

RN 28061-46-3 HCAPLUS
CN Docosahexaenoic acid, methyl ester (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

CM 1

CRN 929-77-1
CMF C23 H46 O2



L21 ANSWER 6 OF 11 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1992:123714 HCAPLUS
DOCUMENT NUMBER: 116:123714
TITLE: Purification and characterization of protein kinase C from the **nematode** Caenorhabditis elegans
AUTHOR(S): Sassa, Toshihiro; Miwa, Johji
CORPORATE SOURCE: NEC Fundam. Res. Lab., Tsukuba, 305, Japan
SOURCE: Biochemical Journal (1992), 282(1), 219-23
CODEN: BIJOAK; ISSN: 0306-3275
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Protein kinase C (PKC) of C. elegans was identified by enzymic activity

and [3H]phorbol 12,13-dibutyrate binding after DEAE-Sephacel column chromatog. of a crude cytosolic ext. Ca2+-dependent activation of **nematode** PKC was obsd. in the presence of phosphatidylserine (PS). PKC was maximally activated by 1,2-dioleoylglycerol or phorbol 12-myristate 13-acetate in the presence of PS and Ca2+. Hydroxylapatite column chromatog. showed only 1 peak of PKC activity with histone H1 and myelin basic protein as substrates. PKC was purified to near homogeneity by sequential chromatog. on polylysine-agarose and PS affinity columns. Purified PKC exhibited a mol. wt. of 79,000 on SDS-PAGE. The substrate specificity of C. elegans PKC was shown to be different from that of mammalian PKCs.

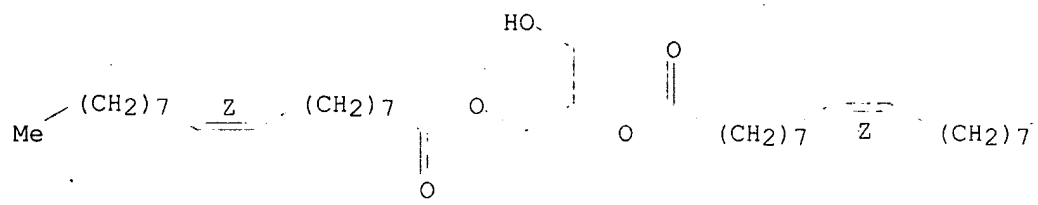
IT **2442-61-7**, 1,2-Dioleoylglycerol
RL: BIOL (Biological study)
(protein kinase C of Caenorhabditis elegans phosphatidylserine-dependent activation response to)

RN 2442-61-7 HCAPLUS

CN 9-Octadecenoic acid (9Z)-, 1-(hydroxymethyl)-1,2-ethanediyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.

PAGE 1-A



PAGE 1-B

Me

L21 ANSWER 7 OF 11 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1990:116162 HCAPLUS

DOCUMENT NUMBER: 112:116162

TITLE: Lipids of Angiostrongylus cantonensis (**Nematoda**: Metastrongyloidea): a comparison between young adults and gravid worms

AUTHOR(S): Kwong, A. Y. H.; Wong, P. C. L.; Ko, R. C.

CORPORATE SOURCE: Dep. Biochem., Univ. Hong Kong, Hong Kong, Hong Kong

SOURCE: Comparative Biochemistry and Physiology, Part B: Biochemistry & Molecular Biology (1990), 95B(1), 193-7
CODEN: CBPBB8; ISSN: 0305-0491

DOCUMENT TYPE: Journal

LANGUAGE: English

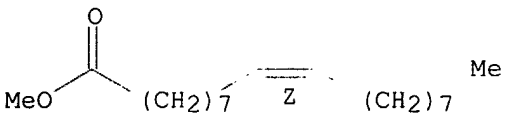
AB All major classes of lipids were found in the young adults in brain (22 days post-infection) and gravid A. cantonensis in lung of rats (34 days post-infection) comprising .apprx.60% phospholipids, 30% neutral lipids, and the rest, glycolipids. The relative compns. of the phospholipids were quite similar between worms from the 2 different habitats, with phosphatidylcholine predominating. The glycolipid profiles were also similar. More neutral lipids in the worms from brain existed as cholesterol and cholesterol esters than did those from the lung. More than 20% of the fatty acids in these lipids of the brain were found as

C10-C14 acids, whereas oleic acid was the main component in the lung worm.

IT **112-62-9**, Methyl oleate
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence)
(of **nematode**, age effect on)

RN 112-62-9 HCAPLUS
CN 9-Octadecenoic acid (9Z)-, methyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.



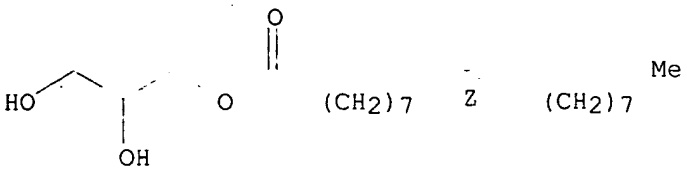
L21 ANSWER 8 OF 11 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1983:401786 HCAPLUS
DOCUMENT NUMBER: 99:1786
TITLE: Behavioral responses of Bursaphelenchus lignicolus (**Nematoda**: Aphelenchoididae) to bitter and pungent substances
AUTHOR(S): Tominaga, Yasuhira; Nagase, Atsushi; Kuwahara, Yasumasa; Sugawara, Ryozo
CORPORATE SOURCE: Inst. Appl. Biochem., Univ. Tsukuba, Sakura, 305, Japan
SOURCE: Applied Entomology and Zoology (1983), 18(1), 106-10
CODEN: APEZAW; ISSN: 0003-6862
DOCUMENT TYPE: Journal
LANGUAGE: English

AB For assay a pair of holes were perforated in agar plates in petri dishes and filled with agar contg. a test chem. and untreated agar resp. A pad of absorbent cotton impregnated with a suspension of the **nematodes** reared on colonies of Botrytis cinerea was placed in the center of the agar plates. After incubation in darkness at 25.degree. for 3 days, the no. of the **nematodes** in the treated and untreated agar disks were counted and analyzed statistically. Among the 19 substances tested, allyl isothiocyanate [57-06-7], Naringenin [480-41-1], L-tyrosine [60-18-4], L-tryptophan [73-22-3], and CaCl2 showed attractive effects with the 1st compd. being most active. Capsaicin [404-86-4] and MgCl2 exhibited repellency, the former being highly active. The threshold values of activity for allyl isothiocyanate and capsaicin were comparable with that of monoolein [**111-03-5**] which was found at 1 .times. 10-4M. Quinine HCl [7549-43-1], phenylthiourea [103-85-5], caffeine [58-08-2], and diallyl disulfide [2179-57-9], exhibited moderate nematocidal activities.

IT **111-03-5**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(Bursaphalenchus lignicolus response to)

RN 111-03-5 HCAPLUS
CN 9-Octadecenoic acid (9Z)-, 2,3-dihydroxypropyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.

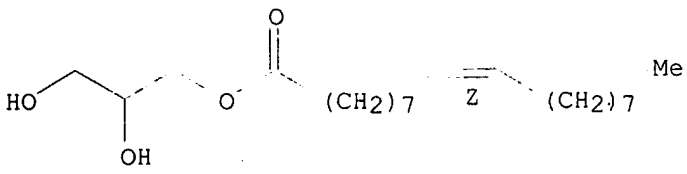


L21 ANSWER 9 OF 11 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1982:137957 HCAPLUS
DOCUMENT NUMBER: 96:137957
TITLE: Aggregation of Bursaphelenchus lignicolus (**Nematoda**: Aphelenchoididae) to several compounds containing oleyl group
AUTHOR(S): Tominaga, Yasuhira; Nagase, Atsushi; Kuwahara, Yasumasa; Sugawara, Ryozo
CORPORATE SOURCE: Inst. Appl. Biochem., Univ. Tsukuba, Ibaraki, 305, Japan
SOURCE: Applied Entomology and Zoology (1982), 17(1), 46-51
CODEN: APEZAW; ISSN: 0003-6862
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Pads of absorbent cotton were placed in the center of petri dishes contg. agar. The **nematodes**, reared on colonies of Botrytis cinerea, were released on the pads. Round, polyethylene pieces, one left untreated and the other 2 or 3 treated with different test chems., were laid around the center, with the treated faces against the agar. After incubation in darkness at 25.degree. for 5 days, the **nematodes** under the pieces were counted. 1-monoolein [**111-03-5**] Exhibited a significant attracting effect, but hydrogenation, epoxidn. and trans isomerization of the cis double bond caused the effect to disappear. ethylene glycol monooleate [**4500-01-0**] Exhibited an activity somewhat lower than that of 1-moinoolein. oleic acid [112-80-1] And oleyl alc. [143-28-2] were also active, but inferior to 1-monoolein. Oleoyl amide was not active. Under the pieces treated with oleylamines, large no. of dead **nematodes** accumulated, probably due to their toxic effect.

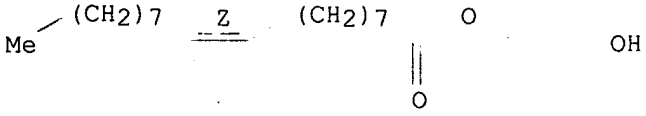
IT **111-03-5 4500-01-0**
RL: BIOL (Biological study)
(**nematode** attractant, for Bursaphelenchus lignicolus)
RN 111-03-5 HCAPLUS
CN 9-Octadecenoic acid (9Z)-, 2,3-dihydroxypropyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.

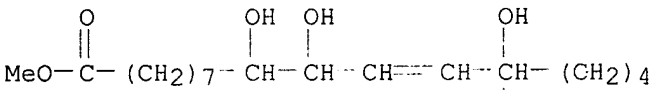


RN 4500-01-0 HCAPLUS
CN 9-Octadecenoic acid (9Z)-, 2-hydroxyethyl ester (9CI) (CA INDEX NAME)

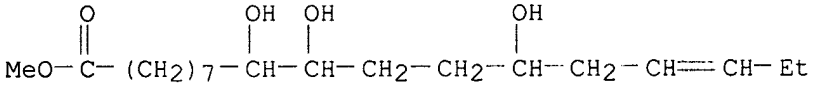
Double bond geometry as shown.



L21 ANSWER 10 OF 11 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1974:548630 HCAPLUS
DOCUMENT NUMBER: 81:148630
TITLE: 9,10,13-Trihydroxy-11,15-octadecadienoic acid and related fatty acids in the roots of kidney bean (Phaseolus vulgaris, Beni-Kintoki)
AUTHOR(S): Takasugi, Mitsuo; Anetai, Masaki; Masamune, Tadashi
CORPORATE SOURCE: Fac. Sci., Hokkaido Univ., Sapporo, Japan
SOURCE: Chemistry Letters (1974), (8), 947-50
CODEN: CMLTAG; ISSN: 0366-7022
DOCUMENT TYPE: Journal
LANGUAGE: English
AB In connection with studies on the characterization of natural hatching-stimulants of soybean cyst **nematode** eggs, several fatty acids were newly isolated from the roots of kidney bean and identified as 4-hydroxy-1,12-dodecanedioic acid .gamma.-lactone, 9,10,13-trihydroxy-11- and 15-octadecenoic acids, and 9,10,13-trihydroxy-11,15-octadeca-dienoic acid.
IT **38947-14-7P 53279-41-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 38947-14-7 HCAPLUS
CN 11-Octadecenoic acid, 9,10,13-trihydroxy-, methyl ester (9CI) (CA INDEX NAME)



RN 53279-41-7 HCAPLUS
CN 15-Octadecenoic acid, 9,10,13-trihydroxy-, methyl ester (9CI) (CA INDEX NAME)



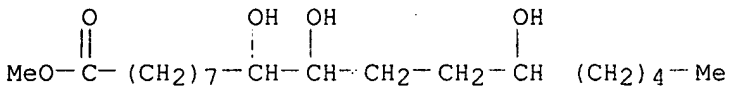
L21 ANSWER 11 OF 11 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1973:463557 HCAPLUS
DOCUMENT NUMBER: 79:63557
TITLE: 9,10,13-Trihydroxyoctadecanoic acid, a new fatty acid in the roots of kidney bean (Phaseolus vulgaris)
AUTHOR(S): Takasugi, Mitsuo; Kobayashi, Kiroku; Anetai, Masaki; Ueno, Shoji; Katsui, Nobukatsu; Masamune, Tadashi
CORPORATE SOURCE: Fac. Sci., Hokkaido Univ., Sapporo, Japan
SOURCE: Chemistry Letters (1973), (5), 445-6
CODEN: CMLTAG; ISSN: 0366-7022
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A new fatty acid, 9,10,13-trihydroxyoctadecanoic acid, m. 135-7.degree.,

was isolated from the roots of kidney bean (P. vulgaris). This acid stimulated the hatching of soybean cyst **nematode** (Heterodera glycines) eggs at a concn. of 10-6 g/ml in H2O at room temp.

IT **50439-75-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 50439-75-3 HCAPLUS

CN Octadecanoic acid, 9,10,13-trihydroxy-, methyl ester (9CI) (CA INDEX NAME)



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L6           221 SEA FILE=REGISTRY ABB=ON  PLU=ON  ETHYL(L)LACTATE
L8         36604 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L4
L9        254587 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L5 OR ?SURFACTANT?
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L30  ANSWER 1 OF 3  HCAPLUS  COPYRIGHT 2003 ACS
ACCESSION NUMBER:         2002:220297  HCAPLUS
DOCUMENT NUMBER:          136:228374
TITLE:                    Controlled release pesticide formulations
                          containing a matrix polymer and a plasticizer
INVENTOR(S):              Asrar, Jawed; Essinger, James F., Jr.
PATENT ASSIGNEE(S):       Monsanto Technology, L.L.C., USA
SOURCE:                   PCT Int. Appl., 69 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.        KIND  DATE          APPLICATION NO.   DATE
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     WO 2002021913      A2   20020321      WO 2001-US28531   20010912
     WO 2002021913      A3   20020926
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             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL,
             PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,
             US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
             DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
             BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
     US 2002103086      A1   20020801      US 2001-950114    20010910
     AU 2001090825      A5   20020326      AU 2001-90825     20010912
PRIORITY APPLN. INFO.:                    US 2000-232693P   P  20000915
                                          US 2001-950114    A  20010910
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WO 2001-US28531 W 20010912

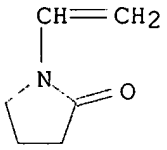
AB Controlled release formulations for **pesticides** and herbicides contain an active ingredient, a matrix polymer and a matrix polymer plasticizer which is present in an amt. sufficient to provide a release rate for the active ingredient from the formulation that matches a selected release rate.

IT **9003-39-8**, Poly(vinylpyrrolidone)
RL: MOA (Modifier or additive use); USES (Uses)
(matrix polymer for controlled release **pesticide** formulations)

RN 9003-39-8 HCAPLUS
CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

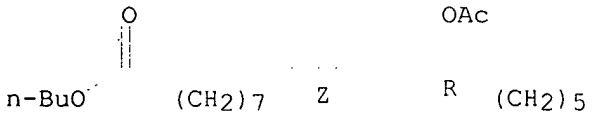
CRN 88-12-0
CMF C6 H9 N O



IT **140-04-5**, Butyl acetyl ricinoleate **1338-39-2**, Sorbitan monolaurate **1338-43-8**, Sorbitan monooleate
RL: MOA (Modifier or additive use); USES (Uses)
(polymer plasticizer for controlled release **pesticide** formulations)

RN 140-04-5 HCAPLUS
CN 9-Octadecenoic acid, 12-(acetyloxy)-, butyl ester, (9Z,12R)- (9CI) (CA INDEX NAME)

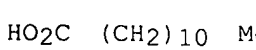
Absolute stereochemistry.
Double bond geometry as shown.



RN 1338-39-2 HCAPLUS
CN Sorbitan, monododecanoate (9CI) (CA INDEX NAME)

CM 1

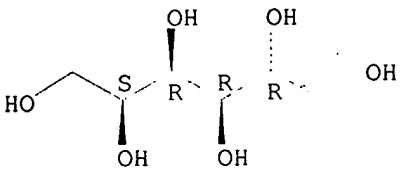
CRN 143-07-7
CMF C12 H24 O2



CM 2

CRN 50-70-4
CMF C6 H14 O6

Absolute stereochemistry.

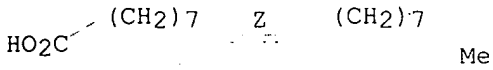


RN 1338-43-8 HCAPLUS
CN Sorbitan, mono-(9Z)-9-octadecenoate (9CI) (CA INDEX NAME)

CM 1

CRN 112-80-1
CMF C18 H34 O2

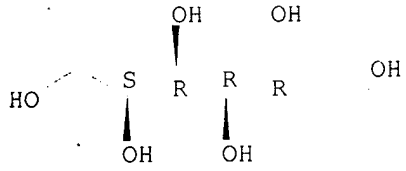
Double bond geometry as shown.



CM 2

CRN 50-70-4
CMF C6 H14 O6

Absolute stereochemistry.



L30 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1981:78426 HCAPLUS
DOCUMENT NUMBER: 94:78426
TITLE: Concentrated oil in water emulsions with **pesticidal** activity
PATENT ASSIGNEE(S): Shell Internationale Research Maatschappij B. V., Neth.
SOURCE: Neth. Appl., 19 pp.
CODEN: NAXXAN
DOCUMENT TYPE: Patent
LANGUAGE: Dutch
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
NL 8001713	A	19800930	NL 1980-1713	19800324
CA 1142850	A1	19830315	CA 1980-346528	19800227
AU 8056766	A1	19801002	AU 1980-56766	19800324
AU 535901	B2	19840412		
JP 55130901	A2	19801011	JP 1980-36323	19800324
JP 63062481	B4	19881202		

FR 2452249	A1	19801024	FR 1980-6486	19800324
FR 2452249	B1	19841019		
BR 8001763	A	19801118	BR 1980-1763	19800324
GB 2048675	A	19801217	GB 1980-9793	19800324
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PRIORITY APPLN. INFO.: US 1979-23851 19790326
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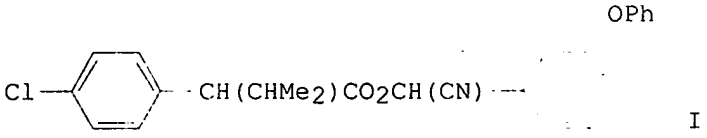
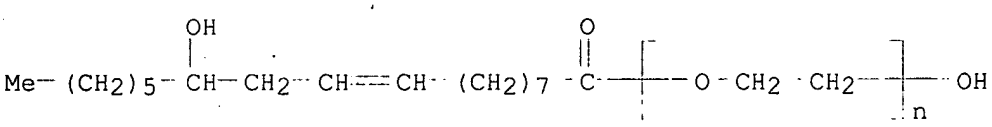


I

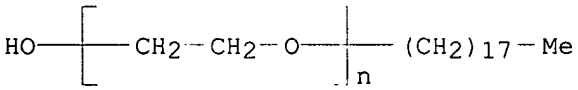
AB Oil-in-water emulsions contg. 3.5-6.5 or 10-35 parts of a lipophilic **pesticide**, 3.5-6.5 or 10-35 parts of a hydrocarbon solvent, 0.1-10 parts of an alkanol, and 0.5-32 parts of a nonionic **surfactant** per 100 parts emulsion have the double-refracting property of liq. crystals and are stable over the temp. range from -18.degree. to +120.degree.. The emulsions also withstand freezing and thawing. For example, .alpha.-cyano-3-phenoxybenzyl .alpha.-isopropyl-p-chlorophenylacetate (I) [51630-58-1] 30.3, Tenneco 500-100 [76416-93-8] (solvent) 30.3, and Atlox 8916TF [9005-65-6] (emulsifier) 1.5 parts were mixed and added to a soln. of ethylene glycol [107-21-1] 10.0 in water 27.9 parts with stirring to give an oil-in-water emulsion.

IT **9004-97-1 9005-00-9 61788-85-0**
RL: BIOL (Biological study)
(**pesticide** emulsions contg.)

RN 9004-97-1 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), .alpha.-[(9Z,12R)-12-hydroxy-1-oxo-9-octadecenyl]-.omega.-hydroxy- (9CI) (CA INDEX NAME)



RN 9005-00-9 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), .alpha.-octadecyl-.omega.-hydroxy- (9CI) (CA INDEX NAME)



RN 61788-85-0 HCAPLUS **
CN Castor oil, hydrogenated, ethoxylated (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L30 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1979:605668 HCAPLUS
DOCUMENT NUMBER: 91:205668
TITLE: Emulsifiers for organophosphorus **pesticides**
INVENTOR(S): Yamazaki, Shoji

PATENT ASSIGNEE(S): Toho Chemical Industry Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 54089026	A2	19790714	JP 1977-156523	19771227

PRIORITY APPLN. INFO.: JP 1977-156523 19771227

AB Nonionic **surfactants** are emulsifiers for organophosphorus **agrochems**. Thus, 3.0 mol of the addn. compd. [31394-71-5] prepd. from oleic acid [112-80-1] and propylene oxide [75-56-9] was reacted with 1.0 mol H3PO4 and 3.0 mol ethylene oxide [75-21-8] and adjusted to pH 6.0 to obtain the nonionic **surfactant** P-1 [71910-86-6]. P-1 50, 30 mol sorbitan monooleate [**1338-43-8**] 40, and Sumithion [122-14-5] was added to the mixt., and allowed to stand at 50.degree. for 1 mo; 0.09% Sumithion was decompd.

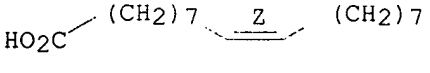
IT **1338-43-8**
RL: BIOL (Biological study)
(organophosphorus **agrochem**. emulsifier contg.)

RN 1338-43-8 HCAPLUS
CN Sorbitan, mono-(9Z)-9-octadecenoate (9CI) (CA INDEX NAME)

CM 1

CRN 112-80-1
CMF C18 H34 O2

Double bond geometry as shown.

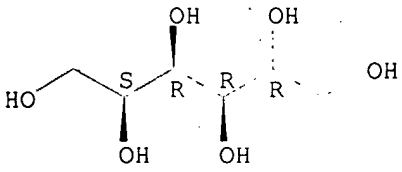


Surfactant.

CM 2

CRN 50-70-4
CMF C6 H14 O6

Absolute stereochemistry.

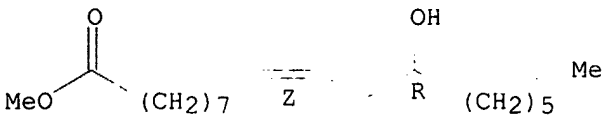


IT **141-24-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as organophosphorus **agrochem**. emulsifier)

RN 141-24-2 HCAPLUS
CN 9-Octadecenoic acid, 12-hydroxy-, methyl ester, (9Z,12R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.

fatty acid



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L74 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS
RN **1338-39-2** REGISTRY
CN Sorbitan, monododecanoate (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Sorbitan, monolaurate (6CI, 8CI)
OTHER NAMES:
CN Alkamuls S 20
CN Alkamuls SML
CN Arlacel 20
CN Armotan ML
CN Atmer 100
CN Dehymuls SML
CN Disponil SML 100
CN Disponil SML 100N
CN Emasol 110
CN Emasol L 10
CN Emasol L 10(F)
CN Emasol Super L 10F
CN Emsorb 2515
CN Glycomul L
CN Glycomul LC
CN Ionet S 20
CN Kemotan S 20
CN L 250
CN L 250 (ester)
CN Lauric acid sorbitan ester
CN Lonzest SML
CN ML 33F
CN Montane 20
CN Nikkol SL 10
CN Nissan Nonion LP 20R
CN Nissan Nonion LR 20R
CN Nonion LP 20R
CN Nonion LR 20R
CN NRF 201
CN Rheodol SP-L 10
CN Rheodol Super SP-L 10
CN SL 101
CN SL 101 (surfactant)
CN Sorbitan lauric acid monoester
CN Sorbitan ML
CN Sorbitan monolauric acid ester
CN Sorbon S 20
CN Sorgen 90
CN SP-L 10
CN Span 20
CN T 20
CN Texnol SPT
CN Value SP 20
FS STEREOSEARCH
DR 8028-02-2, 53528-77-1, 55070-12-7, 76011-50-2
MF C18 H34 O6
CI IDS, COM
LC STN Files: AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, PROMT, RTECS*, TOXCENTER, USAN, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**, WHO
(**Enter CHEMLIST File for up-to-date regulatory information)

CM 1

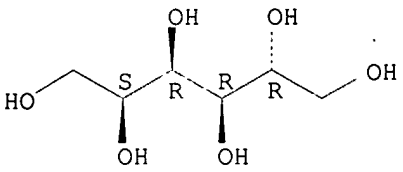
CRN 143-07-7
CMF C12 H24 O2

$HO_2C-(CH_2)_{10}-Me$

CM 2

CRN 50-70-4
CMF C6 H14 O6

Absolute stereochemistry.



1976 REFERENCES IN FILE CA (1957 TO DATE)
30 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1980 REFERENCES IN FILE CAPLUS (1957 TO DATE)
32 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 139:12371

REFERENCE 2: 139:12278

REFERENCE 3: 139:12058

REFERENCE 4: 139:11878

REFERENCE 5: 139:9085

REFERENCE 6: 139:8891

REFERENCE 7: 139:8468

REFERENCE 8: 138:402967

REFERENCE 9: 138:390718

REFERENCE 10: 138:390551

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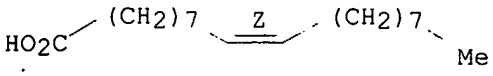
L75 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS
RN **1338-43-8** REGISTRY
CN Sorbitan, mono-(9Z)-9-octadecenoate (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Sorbitan, mono-9-octadecenoate, (Z)-
CN Sorbitan, monooleate (6CI, 8CI)
OTHER NAMES:
CN Alkamuls SMO
CN Arlacel 80
CN Armotan MO
CN Atmer 105
CN Crill 4
CN Dehymuls SMO
CN Disponil 100
CN Emasol 410
CN Emasol O 10
CN Emasol O 10F
CN Emsorb 2500
CN G 946
CN Glycomul O
CN Ionet S 80
CN Kemmat S 80
CN Kosteran O 1
CN Liposorb 80
CN Lonzest SMO
CN MO 33F
CN Monodehydrosorbitol monooleate
CN Monopol SP 1
CN Montane 80
CN Montane 80 VGA
CN Newcol 80
CN Nikkol SO 10
CN Nissan Nonion OP 80R
CN Nonion OP 80R
CN O 250
CN Rheodol AO 10
CN Rheodol SP-O 10
CN Rikemal O 250
CN S 270
CN S 271
CN S 271 (surfactant)
CN S 80
CN S-MAX 80
CN SO 10
CN Sorbester P 17
CN Sorbitan monooleic acid ester
CN Sorbitan O
CN Sorbon S 80
CN Sorgen 40
CN Sorgen 40A
CN SP-O 10
CN Span 80
FS STEREOSEARCH
DR 9015-08-1, 122303-50-8, 54693-53-7, 58391-71-2, 57273-95-7, 62340-88-9, 2060-34-6, 73202-24-1, 76011-51-3, 30233-52-4, 39289-74-2, 182372-02-7, 258823-36-8
MF C24 H44 O6
CI IDS, COM
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PIRA, PROMT,

RTECS*, TOXCENTER, USAN, USPAT2, USPATFULL, VETU
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**, WHO
(**Enter CHEMLIST File for up-to-date regulatory information)

CM 1

CRN 112-80-1
CMF C18 H34 O2

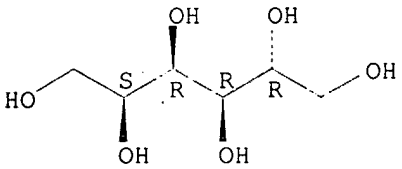
Double bond geometry as shown.



CM 2

CRN 50-70-4
CMF C6 H14 O6

Absolute stereochemistry.



3550 REFERENCES IN FILE CA (1957 TO DATE).
35 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
3560 REFERENCES IN FILE CAPLUS (1957 TO DATE)
47 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 139:12371

REFERENCE 2: 139:12278

REFERENCE 3: 139:12058

REFERENCE 4: 139:12004

REFERENCE 5: 139:11878

REFERENCE 6: 139:11690

REFERENCE 7: 139:11414

REFERENCE 8: 139:8891

REFERENCE 9: 139:8873

REFERENCE 10: 139:8349

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L71  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2003 ACS
RN   9016-45-9  REGISTRY
CN   Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy- (9CI)
     (CA INDEX NAME)
OTHER NAMES:
CN   (Nonylphenoxy)polyethylene oxide
CN   .alpha.-(Nonylphenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl)
CN   .alpha.-(Nonylphenyl)-.omega.-hydroxypolyoxyethylene
CN   .omega.-Hydroxy-.alpha.-(nonylphenyl)poly(oxy-1,2-ethanediyl)
CN   A 730
CN   A 730 (surfactant)
CN   Ace Clean AD
CN   Adekanol NP 1000
CN   Adekatol NP
CN   Adekatol NP 1000
CN   Adekatol NP 1100
CN   Adekatol NP 638
CN   Adekatol NP 650
CN   Adekatol NP 660
CN   Adekatol NP 675
CN   Adekatol NP 683
CN   Adekatol NP 686
CN   Adekatol NP 690
CN   Adekatol NP 700
CN   Adekatol NP 710
CN   Adekatol NP 720
CN   Adekatol NP 760
CN   Adekatol NP 900
CN   Afilan CVH
CN   Agral
CN   Agral 600
CN   Agral 90
CN   Agral LN
CN   Agral Plus
CN   Agral R
CN   Akyporox NP 105
CN   Akyporox NP 95
CN   Alcosist PN
CN   Alfenol
CN   Alfenol 10
CN   Alfenol 18
CN   Alfenol 22
CN   Alfenol 28
CN   Alfenol 710
CN   Alfenol 8
CN   Alfenol N 8
CN   Alkasurf NP
CN   Alkasurf NP 11
CN   Alkasurf NP 15
CN   Alkasurf NP 8
CN   AlphoX 200
CN   Antarox 897
CN   Antarox CO
CN   Antarox CO 430
CN   Antarox CO 530
ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for
     DISPLAY
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     11107-93-0, 172521-16-3, 53529-49-0, 53663-55-1, 53763-35-2, 53763-36-3,
     54174-36-6, 56590-96-6, 57308-02-8, 57571-69-4, 123019-34-1, 123068-21-3,
     124057-60-9, 54985-54-5, 55126-80-2, 55838-69-2, 59330-69-7, 60098-67-1,
     60476-27-9, 63798-88-9, 64296-14-6, 64940-97-2, 65035-40-7, 65035-41-8,
     62229-24-7, 62229-29-2, 63440-03-9, 96957-64-1, 96958-17-7, 96958-28-0,
     102188-45-4, 99402-83-2, 99531-82-5, 95828-59-4, 96231-61-7, 103939-37-3,
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61614-07-1, 61840-55-9, 62169-44-2, 65777-14-2, 66525-84-6, 37187-23-8,
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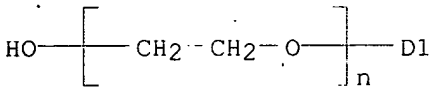
76829-05-5, 77271-60-4, 142985-89-5, 75882-09-6, 80341-59-9, 143929-07-1,
93095-76-2, 83271-48-1, 80966-32-1, 81296-82-4, 30676-83-6, 32196-52-4,
39289-57-1, 39316-45-5, 39316-73-9, 39346-85-5, 39373-71-2, 39392-83-1,
39393-36-7, 39421-49-3, 39453-05-9, 39454-98-3, 39475-46-2, 42617-03-8,
52038-46-7, 52051-49-7, 52434-07-8, 52440-03-6, 52440-78-5, 52440-94-5,
52504-18-4, 52504-19-5, 52683-07-5, 53125-17-0, 107231-62-9, 116711-78-5,
188612-23-9, 190856-87-2, 205577-03-3, 226225-58-7, 226225-59-8,
441352-55-2, 441352-56-3, 441352-57-4, 441352-58-5, 441352-59-6,
509171-19-1
MF (C2 H4 O)n C15 H24 O
CI IDS, PMS, COM
PCT Polyether
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS, BIOTECHNO,
CA, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB,
DETHERM*, DIOGENES, EMBASE, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA,
MSDS-OHS, NIOSHTIC, PDLCOM*, PIRA, PLASPEC*, PROMT, RTECS*, TOXCENTER,
ULIDAT, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, TSCA**, WHO
(**Enter CHEMLIST File for up-to-date regulatory information)



D1— $(CH_2)_8$ —Me

11582 REFERENCES IN FILE CA (1957 TO DATE)
409 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
11587 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 139:14957

REFERENCE 2: 139:12855

REFERENCE 3: 139:12832

REFERENCE 4: 139:12664

REFERENCE 5: 139:12387

REFERENCE 6: 139:8470

REFERENCE 7: 139:8099

REFERENCE 8: 139:8019

REFERENCE 9: 139:7756

REFERENCE 10: 138:410946

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L71 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS
CN Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy- (9CI)

(CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Glycols, polyethylene, mono(nonylphenyl) ether (8CI)
OTHER NAMES:
CN (Nonylphenoxy)polyethylene oxide
CN .alpha.-(Nonylphenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl)
CN .alpha.-(Nonylphenyl)-.omega.-hydroxypolyoxyethylene
CN .omega.-Hydroxy-.alpha.-(nonylphenyl)poly(oxy-1,2-ethanediyl)
CN A 730
CN A 730 (surfactant)
CN Ace Clean AD
CN Adekanol NP 1000
CN Adekatol NP
CN Adekatol NP 1000
CN Adekatol NP 1100
CN Adekatol NP 638
CN Adekatol NP 650
CN Adekatol NP 660
CN Adekatol NP 675
CN Adekatol NP 683
CN Adekatol NP 686
CN Adekatol NP 690
CN Adekatol NP 700
CN Adekatol NP 710
CN Adekatol NP 720
CN Adekatol NP 760
CN Adekatol NP 900
CN Afilan CVH
CN Agral
CN Agral 600
CN Agral 90
CN Agral LN
CN Agral Plus
CN Agral R
CN Akyporox NP 105
CN Akyporox NP 95
CN Alcosist PN
CN Alfenol
CN Alfenol 10
CN Alfenol 18
CN Alfenol 22
CN Alfenol 28
CN Alfenol 710
CN Alfenol 8
CN Alfenol N 8
CN Alkasurf NP
CN Alkasurf NP 11
CN Alkasurf NP 15
CN Alkasurf NP 8
CN AlphoX 200
CN Antarox 897
CN Antarox CO
CN Antarox CO 430
CN Antarox CO 530
CN Antarox CO 630
CN Antarox CO 730
CN Antarox CO 850
CN Antarox CO 880
CN Antarox CO 970
CN Arkopal 130
CN Arkopal 160
CN Arkopal 40
CN Arkopal 60
CN Arkopal 80
CN Arkopal 9
CN Arkopal N
CN Arkopal N 040
CN Arkopal N 060

CN Arkopal N 080
CN Arkopal N 090
CN Arkopal N 100
CN Arkopal N 110
CN Arkopal N 130
CN Arkopal N 150
CN Arkopal N 230
CN Arkopal N 300
CN Arkopal N 308
CN Arkopal N 50
CN Atmer 508
CN Auxipon NP
CN B 315
CN B 315 (polyoxyalkylene)
CN B 350
CN Berol 02
CN Berol 09
CN Berol 227
CN Berol 259
CN Berol 26
CN Berol 267
CN Berol 268
CN Berol 296
CN Berol WASC
CN Biefenol N 45
CN BLM
CN BLM (polymer)
CN Burtemul N
CN Carsonon N
CN Carsonon N 30
CN Carsonon N 4
CN Carsonon N 8
CN CCC jelly
CN Cemulsol NP 10
CN Cemulsol NP 12
CN Cemulsol NP 5
CN Cemulsol NP 6
CN Cemulsol NP 7
CN Cemulsol NP 8
CN Cemulsol NP 9
CN Cemulsol NP-EO 6
CN Chemax NP 1.5
CN Chemax NP 9
CN Chimipal WN 6
CN CO 436
CN CO 610
CN CO 630
CN CO 730
CN Conco NI
CN Conco NI 190
CN Dehscoxid 771
CN Dehscoxid 781
CN Dehydrophen 100
CN Dikssol W 92
CN Dispergator BO
CN Disponil NP 10
CN DME
CN DME (polymer)
CN Dowfax 9N20
CN Dowfax 9N5
CN Dowfax 9N50
CN Dowfax 9N6
CN Dowfax 9N9
CN DS 3195
CN E 913
CN EA 170S
CN EA 80
CN Eleminol HA 100

CN Eleminol HA 161
CN Elfapur N 70
CN Elfapur N 90
CN Emalex NP 12
CN Emalex NP 15
CN Emalex NP 8.5
CN Emmon 15332
CN Empilan NP 8
CN Empilan NP 9
CN EMU 02
CN EMU 09
CN Emulgator NP 10
CN Emulgator U 6
CN Emulgen 309P
CN Emulgen 900
CN Emulgen 903
CN Emulgen 904
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CN Emulgen 931
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CN Emulgen 950
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CN Emulgen 999S
CN Emulgen PI 20T
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CN Emulsit 16
CN Emulsit 161
CN Emulsit 25
CN Emulsit 9
CN Emulson 20B
CN Emulson 9B
CN Esapal NP 90
CN Ethal NP 10F
CN Ethoxylated nonylphenol
CN Ethylan 20
CN Ethylan 44
CN Ethylan 55
CN Ethylan 77
CN Ethylan BCP
CN Ethylan BV
CN Ethylan HA
CN Ethylan KEO
CN Ethylan N
CN Ethylan N 5.5
CN Ethylan TU
CN Ethylene oxide-nonylphenol condensate
CN Ethylene oxide-nonylphenol polymer
CN Etolat 914
CN Eumulgin 286
CN Fenopal
CN FN 10
CN FN 20
CN FN 20 (polyoxyalkylene)
CN Gafac CO 990
CN Gedepal CO 210
CN Hermoowet
CN HME

CN Hostapal CV
CN Hostapal W
CN Hyonic NP 40
CN Hyonic NP 4011
CN Hyonic NP 60
CN Hyonic NP 90
CN Hyonic PE 100
CN Hyonic PE 120
CN Hyonic PE 90
CN Iconol NP 100 Pastille FD
CN Iconol NP 40
CN Iconol NP 50
CN Iconol NP 6
CN Iconol NP 70
CN Iconol NP 9
CN Igepal 520
CN Igepal 710
CN Igepal 720
CN Igepal BC 14
CN Igepal BC 16
CN Igepal BC 17
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CN Igepal BC 5
CN Igepal BC 8
CN Igepal CO
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CN Igepal LO 997
CN Igepal NP 10
CN Igepal NP 12
CN Igepal NP 6
CN Imbentin
CN Imbentin N 52
CN Imbentine
CN Kumiten
CN Lerolat N
CN Lerolat N 300
CN Levelan P 208
CN Lipal 9N
CN Liponox NC 130
CN Liponox NC 300
CN Liponox NC 300F
CN Liponox NC 38
CN Liponox NC 500F
CN Liponox NC 60

CN Liponox NC 86
CN Liponox NC 95
CN Liponox NCA
CN Liponox NCD
CN Liponox NCG
CN Liponox NCH
CN Liponox NCI
CN Liponox NCM
CN Lissapol N
CN Lissapol NX
CN Lissapol NXP 10
CN Lissapol TN 450
CN Lubrol APN 5
CN Lubrol L
CN Lubrol N
CN Lubrol N 13
CN Lutensol AP 10
CN Lutensol AP 14
CN Lutensol AP 20
CN Lutensol AP 9
CN M 812
CN Macol NP
CN Macol NP 4
CN Macol NP 6
CN Macol NP 9.5
CN Makon
CN Makon 10
CN Makon 12
CN Makon 14
CN Makon 30
CN Makon 4
CN Makon 6
CN Makon 8
CN Marlophen
CN Marlophen 810
CN Marlophen 812
CN Marlophen 83
CN Marlophen 88
CN Marlophen 89
CN Mergital OP 2
CN Meriten FN 10
CN Meriten NF 9
CN Merpoxen 230
CN Merpoxen ON
CN Mono(nonylphenyl)polyethylene glycol
CN Monopol 1020
CN Monopol NP 1025
CN Mylura
CN MYN 108
CN N 100
CN N 101
CN Nalco 5595
CN Nalco 5596
CN Nalco 5599
CN Nemol K 1030
CN Nemol K 1032
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CN Nemol K 2030
CN Nemol K 3030
CN Nemol K 34
CN Nemol K 36
CN Nemol K 38
CN Nemol K 39
CN Nemol K 539
CN Neutronyx 640
CN Neutronyx 676
CN Newcol 1568

CN Newcol 504
CN Newcol 506
CN Newcol 509
CN Newcol 516
CN Newcol 520
CN Newcol 560
CN Newcol 561H
CN Newcol 562
CN Newcol 564
CN Newcol 568
CN NF 4
CN Nikkol NP
CN Nikkol NP 10
CN Nikkol NP 100
CN Nikkol NP 15
CN Nikkol NP 18
CN Nikkol NP 18TX
CN Nikkol NP 2
CN Nikkol NP 20
CN Nikkol NP 5
CN Nikkol NP 7.5
CN Nissan Nonion NS
CN Nissan Nonion NS 12
CN Nissan Nonion NS 202
CN Nissan Nonion NS 202S
CN Nissan Nonion NS 203
CN Nissan Nonion NS 204.5
CN Nissan Nonion NS 2045
CN Nissan Nonion NS 206
CN Nissan Nonion NS 208.5
CN Nissan Nonion NS 210
CN Nissan Nonion NS 215
CN Nissan Nonion NS 220
CN Nissan Nonion NS 230
CN Nissan Nonion NS 230-60
CN Nissan Nonion NS 270
CN Nissan Nonion NS 402
CN Noigen E 120
CN Noigen EA 130T
CN Noigen EA 150
CN Noigen EA 170S
CN Noigen EA 50
CN Noigen EA 70
CN Noigen EA 80
CN Noigen EA 80E
CN Noigen RA 80
CN Nonal 206
CN Nonal 208
CN Nonal 210
CN Nonal 212
CN Nonal 214
CN Nonal 912A
CN Nonaril 910
CN Nonaril 930
CN Nonfix 2
CN Nonfix 5
CN Nonidet NP 40
CN Nonidet NP 50
CN Nonidet P 80
CN Nonio-light PN 12
CN Nonio-light PN 4
CN Nonio-light PN 6
CN Nonion NS
CN Nonion NS 202
CN Nonion NS 202S
CN Nonion NS 203
CN Nonion NS 204.5
CN Nonion NS 2045

CN Nonion NS 206
CN Nonion NS 208.5
CN Nonion NS 210
CN Nonion NS 212
CN Nonion NS 215
CN Nonion NS 220
CN Nonion NS 230
CN Nonion NS 230-60
CN Nonion NS 240
CN Nonion NS 270
CN Nonionik NI
CN Nonipol
CN Nonipol 100
CN Nonipol 110
CN Nonipol 120
CN Nonipol 130
CN Nonipol 140
CN Nonipol 160
CN Nonipol 20
CN Nonipol 200
CN Nonipol 300
CN Nonipol 40
CN Nonipol 400
CN Nonipol 45
CN Nonipol 500
CN Nonipol 55
CN Nonipol 6
CN Nonipol 60
CN Nonipol 70
CN Nonipol 80
CN Nonipol 800
CN Nonipol 85
CN Nonipol 90
CN Nonipol 95
CN Nonylphenol ethoxylate
CN Nonylphenol ethylene oxide condensate
CN Nonylphenol polyethylene glycol ether
CN Nonylphenol polyethylene oxide
CN Nonylphenoxy polyethoxy ethanol
CN Nonylphenoxypoly(ethyleneoxy)ethanol
CN Nonylphenoxypoly(ethylenoxy)ethanol
CN Nonylphenoxypoly(oxyethylene)ethanol
CN Nonylphenyl ethoxylate
CN Nonylphenyl polyethylene glycol ether
CN Nonylphenyl polyoxyethylene ether
CN NOP 9
CN Noregal LC 4 Conc.
CN NP
CN NP (nonionic surfactant)
CN NP 10
CN NP 100
CN NP 1000
CN NP 1018
CN NP 13
CN NP 14
CN NP 15
CN NP 15 (defoamer)
CN NP 17
CN NP 18PTX
CN NP 18TX
CN NP 20
CN NP 30
CN NP 40
CN NP 5
CN NP 50
CN NP 6
CN NP 660
CN NP 695

CN NP 7
CN NP 7.5
CN NP 700
CN NP 8
CN NP 80
CN NP 85
CN NP 9
CN NP 936
CN NPEO10
CN NPEO20
CN NPEO30
CN NPEO40
CN NS 202
CN NS 204.5
CN NS 2045
CN NS 205.5
CN NS 206
CN NS 208.5
CN NS 215
CN NS 220
CN NS 230
CN NS 230-60
CN NS 240
CN NS 270
CN ON 10
CN OP 2
CN Oxyethylated nonylphenol
CN Oxyethylene nonylphenyl ether
CN PBI Spreader
CN Penerol NP 10
CN Penerol NP 16
CN Penerol NP 7
CN Penetrax
CN Phenoxol 9/18
CN Phenoxol 9/20
CN Pionin D 414
CN Poly(ethylene oxide) nonylphenyl ether
CN Poly(oxyethylene) nonylphenol ether
CN Poly(oxyethylene) nonylphenyl ether
CN Poly-Tergent B
CN Poly-Tergent B 150
CN Poly-Tergent B 200
CN Poly-Tergent B 300
CN Poly-Tergent B 350
CN Polyethoxylated nonylphenol
CN Polyethylene glycol mono(nonylphenol) ether
CN Polyethylene glycol mono(nonylphenyl) ether
CN Polyethylene glycol nonylphenol ether
CN Polyethylene glycol nonylphenyl ether
CN Polyethylene glycol nonylphenyl monoether
CN Polyethyleneoxide mono(nonylphenyl) ether
CN Polyoxyethylated nonylphenol
CN Polyoxyethylene (15) nonyl phenyl ether
CN Polyoxyethylene (20) nonyl phenyl ether
CN Polyoxyethylene glycol nonylphenyl ether
CN Polyoxyethylene monononylphenyl ether
CN Polypol
CN Polystep F 10NP40
CN Polystep F 3
CN Polystep F 4
CN Polystep F 5
CN Polystep F 6
CN Polystep F 8
CN Polystep F 8NP20
CN Polystep F 9
CN Prevocell N 10
CN Prevocell N 11
CN Prevocell N 12

CN Prevocell N 20
CN Prevocell N 30
CN Prevocell N 5.5
CN Prevocell N 55
CN Prevocell W-OF 100
CN Remcopal NP 30
CN Rendells suppository
CN Renex 1000
CN Renex 110
CN Renex 230
CN Renex 300
CN Renex 40
CN Renex 647
CN Renex 648
CN Renex 650
CN Renex 678
CN Renex 679
CN Renex 682
CN Renex 688
CN Renex 690
CN Renex 697
CN Renex 698
CN Renex 80
CN Retzanol NP 100
CN Rewopal HV 10
CN Rewopal HV 25
CN Rewopal HV 5
CN Rewopal NP 10
CN Rexol 25/10
CN Rexol 25/15
CN Rexol 25/4
CN Rexol 25/7
CN Rexol 25/9
CN Rexol 25J
CN Rheomix 610P
CN Rhodadasnif NP
CN Rhodiasurf NP 9
CN Rikemal A 23
CN Rioklen NF 10
CN Rioklen NF 9
CN Rohagal 12N
CN SA 1
CN Sapal
CN Scourol 900
CN SER-AD FN 1566
CN Serdox NNP
CN Serdox NNP 1.5
CN Serdox NNP 10
CN Serdox NNP 12
CN Serdox NNP 15
CN Serdox NNP 20
CN Serdox NNP 4
CN Serdox NNP 7
CN Serdox NNP 8
CN Serdox NNP 8.5
CN Simulsol 630
CN Simulsol 830NP
CN Sinnopal NP
CN Siponic NP
CN Siponic NP 9
CN Slovafol
CN Slovafol 903
CN Slovafol 905
CN Slovafol 906
CN Slovafol 909
CN Slovafol 90S
CN Slovafol 910
CN Slovafol 915

CN Slovafol 920
CN Slovafol A
CN Slovafol X
CN Slovasol 903
CN Solar NF
CN Soprophor BC 10
CN Soprophor BC 17
CN Soprophor BC 2
CN Soprophor BC 20
CN Soprophor BC 4
CN Soprophor BC 40
CN Soprophor BC 6
CN Soprophor BS 10
CN Soprophor NP 10
CN Steinapal HV
CN Steinapal HV 10
CN Steinapal HV 14
CN Steinapal HV 25
CN Steinapal HV 3
CN Steinapal HV 4
CN Steinapal HV 5
CN Steinapal HV 8
CN Steinapal HV 9
CN Sterling NP 10
CN Sterox ND
CN Stokolan NS 9
CN Sunaptol NP 55
CN Sunmorl N 300
CN Sunmorl X 1
CN Surf Ac N 0120
CN Surf Ac N 040
CN Surfonic 60
CN Surfonic N
CN Surfonic N 1
CN Surfonic N 10
CN Surfonic N 100
CN Surfonic N 1000
CN Surfonic N 102
CN Surfonic N 106
CN Surfonic N 120
CN Surfonic N 150
CN Surfonic N 200
CN Surfonic N 300
CN Surfonic N 31.5
CN Surfonic N 40
CN Surfonic N 400
CN Surfonic N 550
CN Surfonic N 60
CN Surfonic N 700
CN Surfonic N 75
CN Surfonic N 800
CN Surfonic N 85
CN Surfonic N 95
CN Syn Fac 905
CN Syn Fac N 95
CN Synperonic N
CN Synperonic NP
CN Synperonic NP 10
CN Synperonic NP 12
CN Synperonic NP 13
CN Synperonic NP 15
CN Synperonic NP 20
CN Synperonic NP 30
CN Synperonic NP 4
CN Synperonic NP 5
CN Synperonic NP 50
CN Synperonic NP 6
CN Synperonic NP 8

CN Synperonic NP 9
CN Synperonic NX
CN Synperonic NXP
CN Synthrapol N
CN Syntopon C
CN T-DET N
CN T-DET N 10.5
CN T-DET N 100
CN T-DET N 12
CN T-DET N 14
CN T-Det N 30
CN T-DET N 4
CN T-Det N 50
CN T-DET N 507
CN T-DET N 6
CN T-DET N 9.5
CN Tensioactiv NF 10
CN Tensioactiv NF 6
CN Tenzilin 080
CN Tenzilin FN 65
CN Tergitol 9.5
CN Tergitol NP
CN Tergitol NP 10
CN Tergitol NP 101
CN Tergitol NP 12
CN Tergitol NP 13
CN Tergitol NP 14
CN Tergitol NP 15
CN Tergitol NP 27
CN Tergitol NP 33
CN Tergitol NP 35
CN Tergitol NP 4
CN Tergitol NP 40
CN Tergitol NP 6
CN Tergitol NP 7
CN Tergitol NP 70
CN Tergitol NP 8
CN Tergitol NP 9
CN Tergitol NPX
CN Tergitol TH
CN Tergitol TNP 10
CN Tergitol TP 9
CN Teric GN
CN Teric GN 5
CN Teric GN 8
CN Teric GN 9
CN Teric N
CN Teric N 100
CN Teric N 12
CN Teric N 15
CN Teric N 2
CN Teric N 30
CN Teric N 40
CN Teric N 450
CN Teric N 5
CN Teric N 9
CN Texofor FN 6
CN Texofor FN 8
CN TN 450
CN Triton N
CN Triton N 100
CN Triton N 101
CN Triton N 111
CN Triton N 128
CN Triton N 150
CN Triton N 302
CN Triton N 401
CN Triton N 42

CN Triton N 57
CN Triton N 60
CN Triton N 998
CN Trycol 6940
CN Trycol 6954
CN Trycol 6961
CN Trycol 6964
CN Trycol 6968
CN Trycol 6969
CN Trycol 6974
CN Trycol NP 30
CN Trycol NP 40
CN TX 10
CN TX 12
CN TX 7
CN Ucefal DCN
CN Value 3706
CN Varonic N 30-7
CN Varonic N 6
CN Veranol N 10
CN Wasc
CN Wellaid 711W
CN Weranol H 10
CN Witconate NP 120
CN Witconol NP 100
CN Witconol NP 120
CN Witconol NP 40
CN Witconol NP 60
CN Witconol NP 80
CN YF 6500